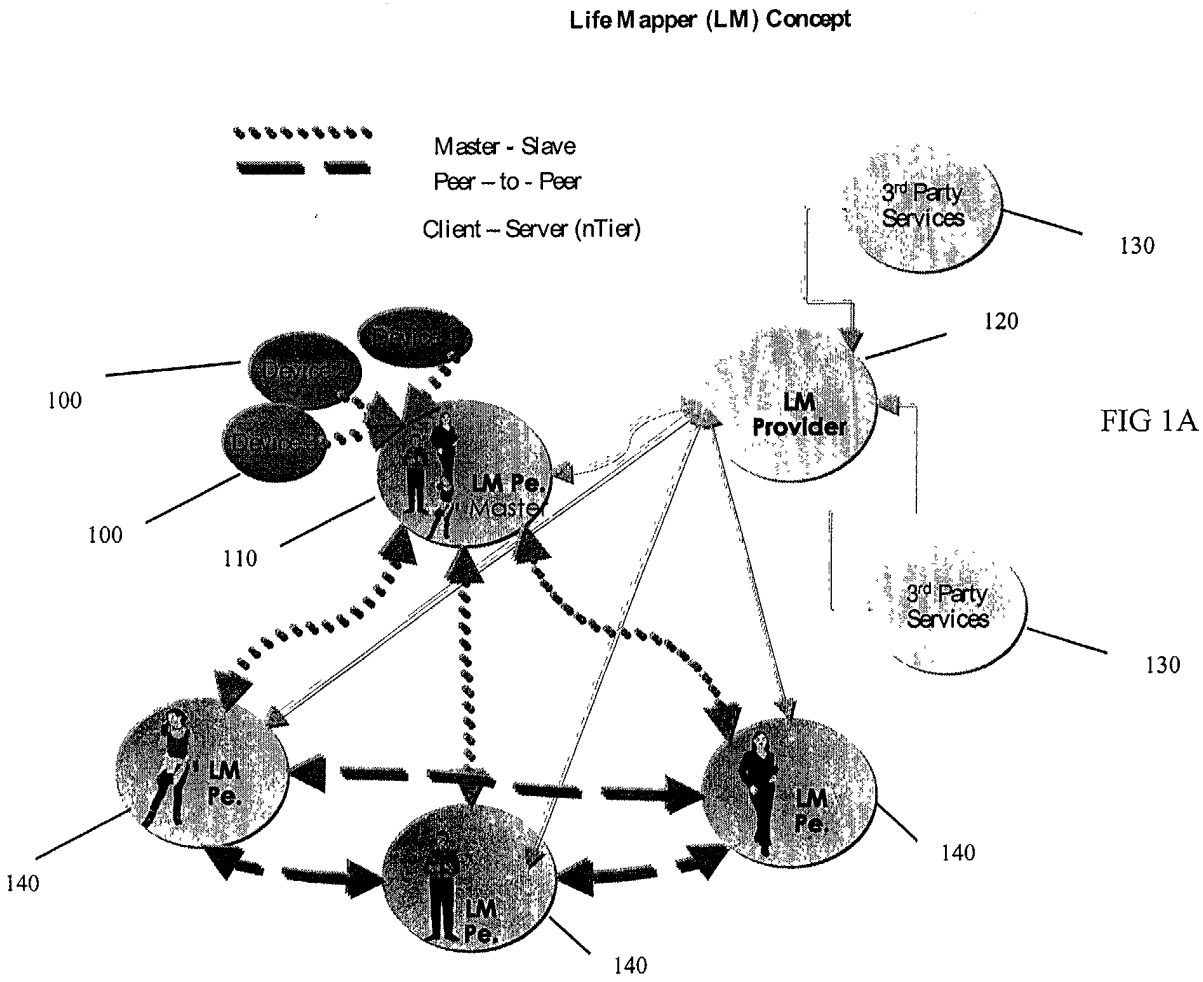

Life Mapper (LM) Concept
Master - Slave
Peer – to - Peer
Client – Server (nTier)
3rd Party Services
130
120
LM Provider
100
100
110
LM Pe. Master
3rd Party Services
130
LM Pe.
LM Pe.
LM Pe.
140
140
140

FIG 1A

Nokia LifeMapper – technical concept

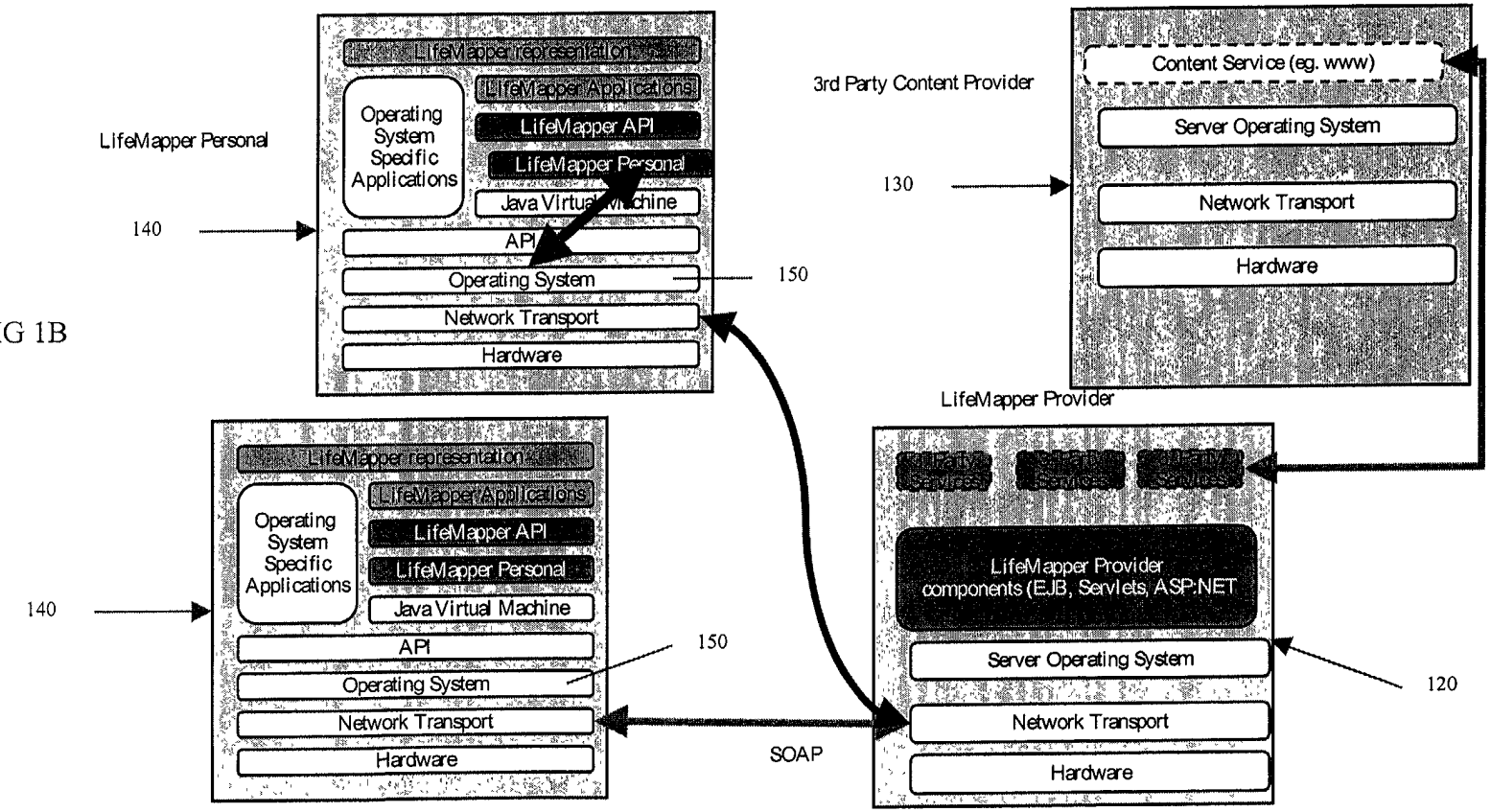


FIG 1B

LifeMapper Personal - Device independence

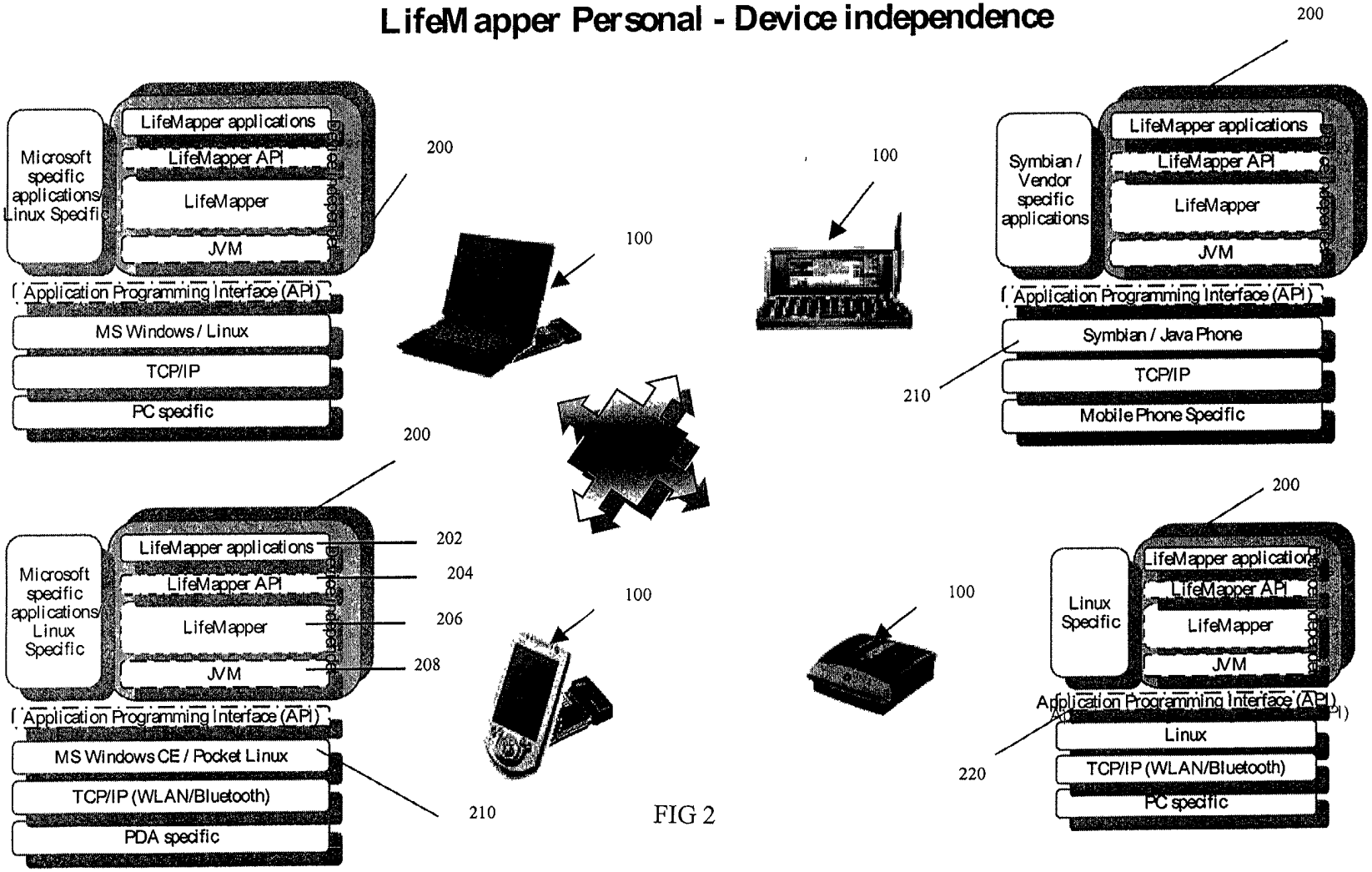


FIG 2

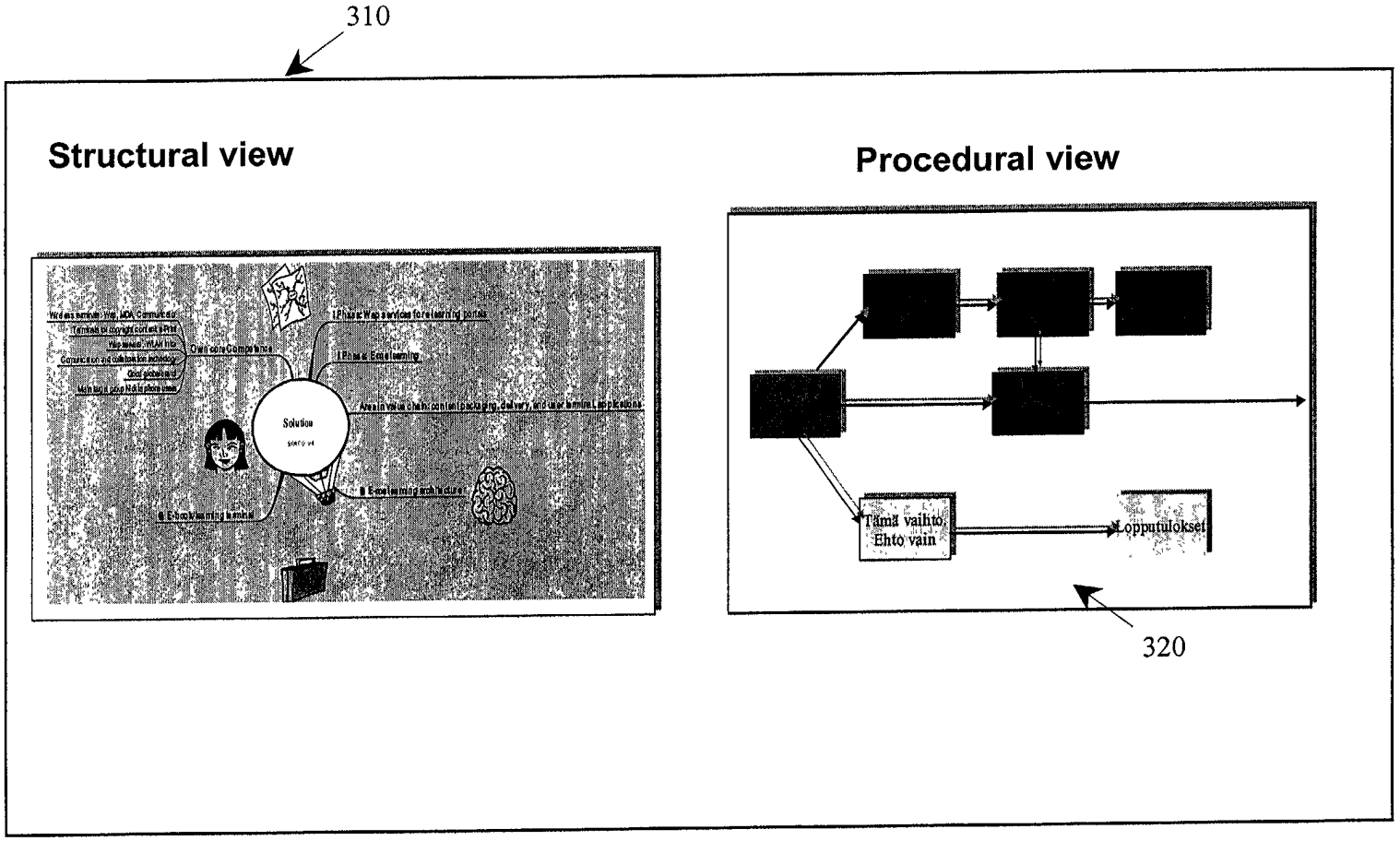

310
Structural view
Procedural view
Solution
Tämä vaihto
Ehto vain
Lopputulokset
320

Figure 3A

209260 "027820Dt

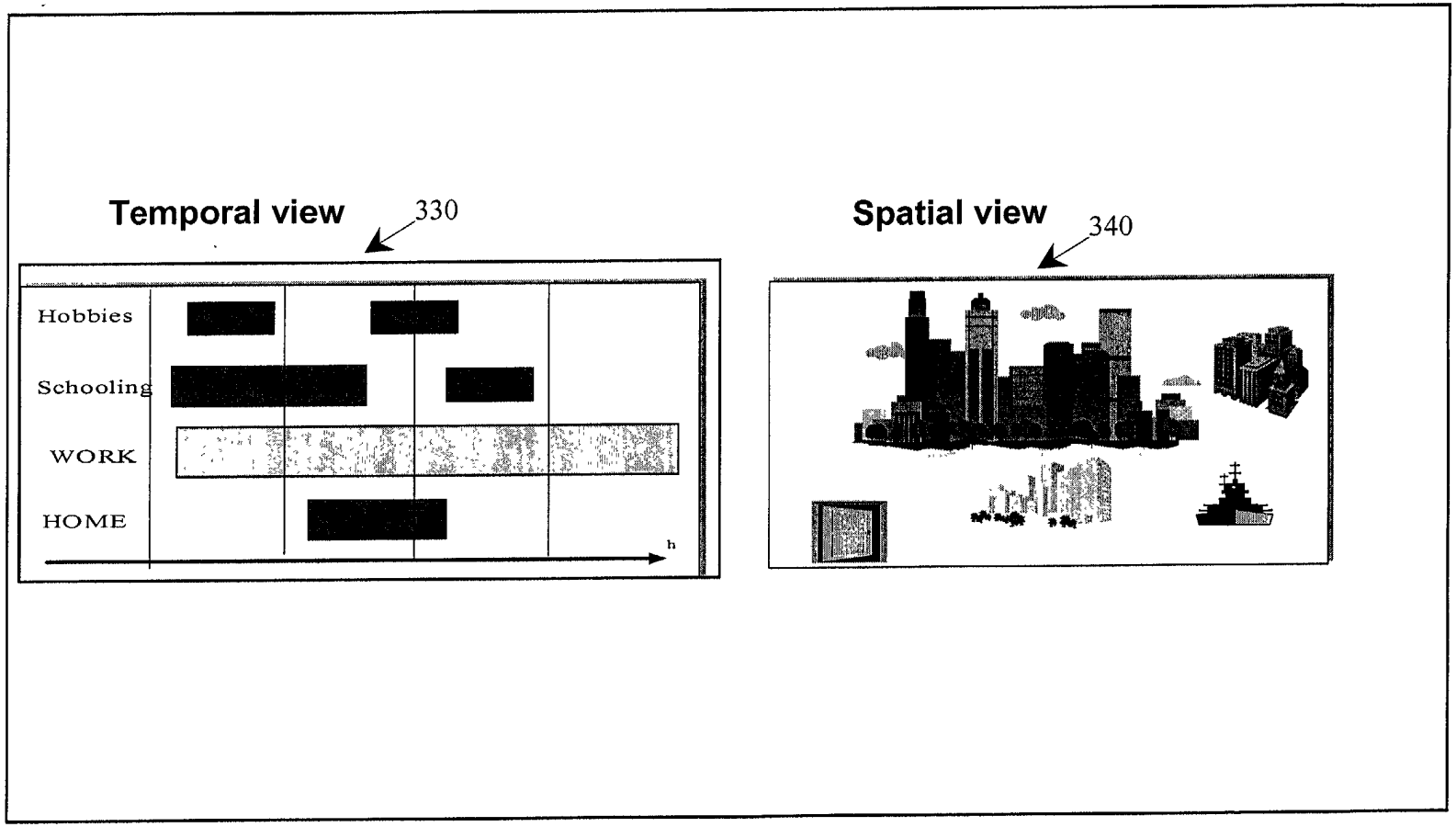
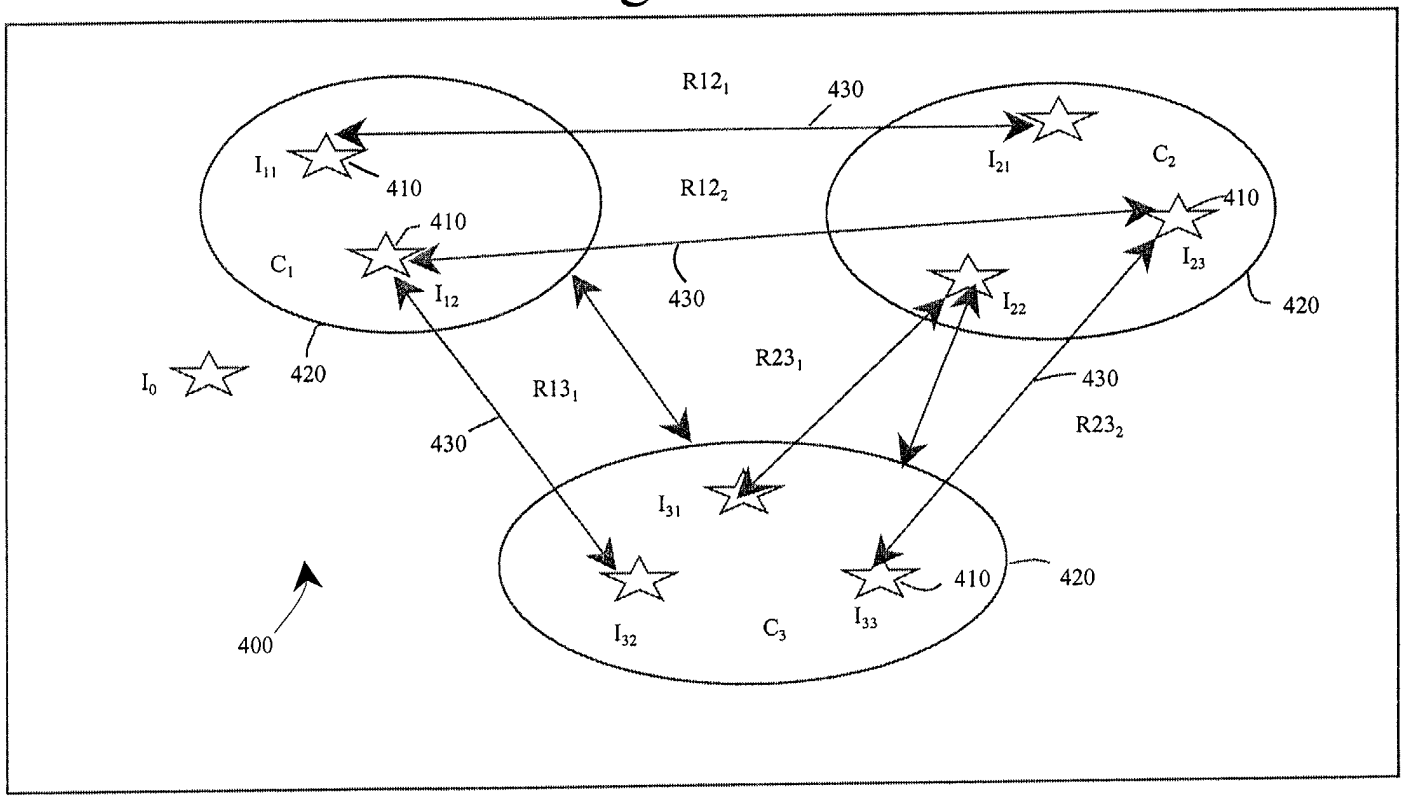


Figure 3B

20926E0" 02TS20DT

Figure. 4



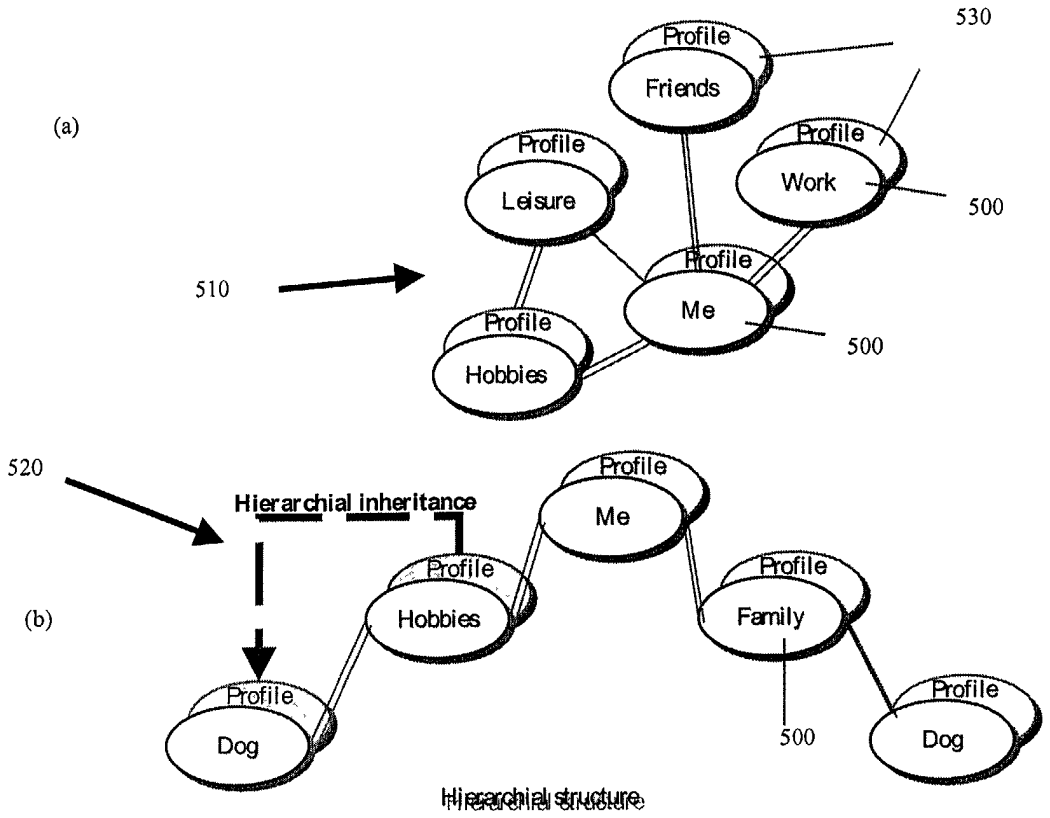

Nokia LifeMapper Personal – Node Profile
(a)
Profile
Friends
530
Profile
Leisure
Profile
Work
500
510
Profile
Me
Profile
Hobbies
500
520
Hierarchial inheritance
(b)
Profile
Me
Profile
Hobbies
Profile
Family
Profile
Dog
500
Profile
Dog
Hierarchial structure

FIG. 5

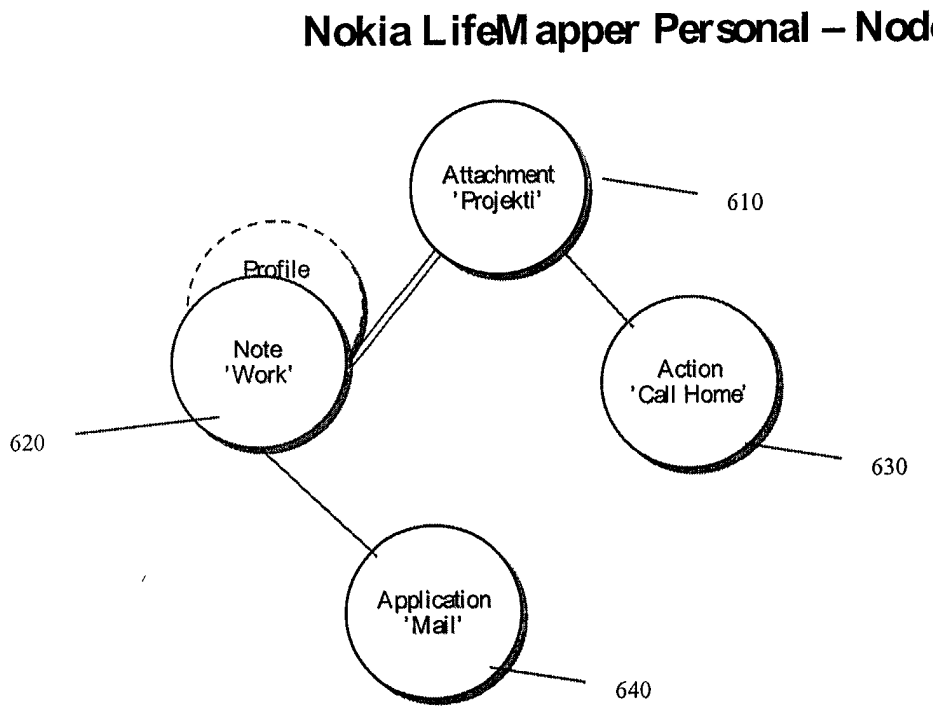

Nokia LifeMapper Personal – Node Types
Attachment
'Projekti'
610
Profile
Note
'Work'
620
Action
'Call Home'
630
Application
'Mail'
640

FIG. 6

Nokia LifeMapper Personal – A Note Node

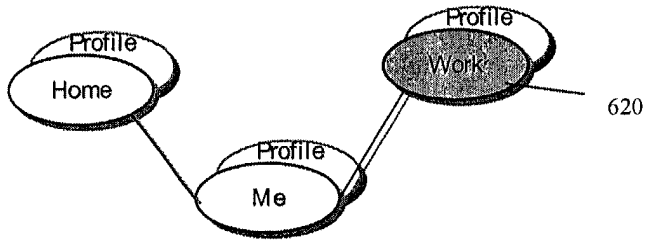
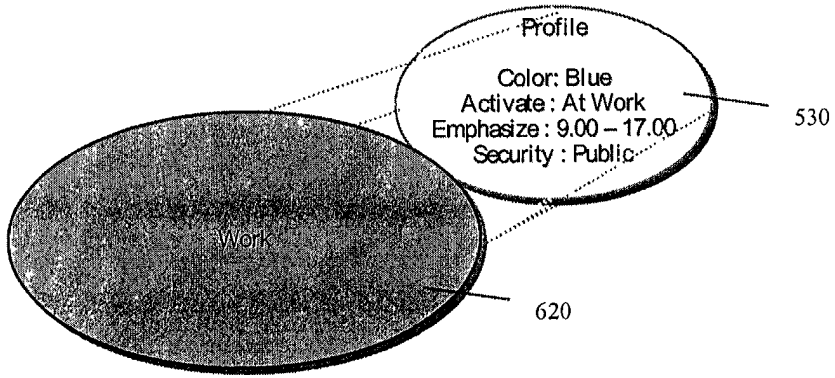


FIG. 7



20926E0 07T82007

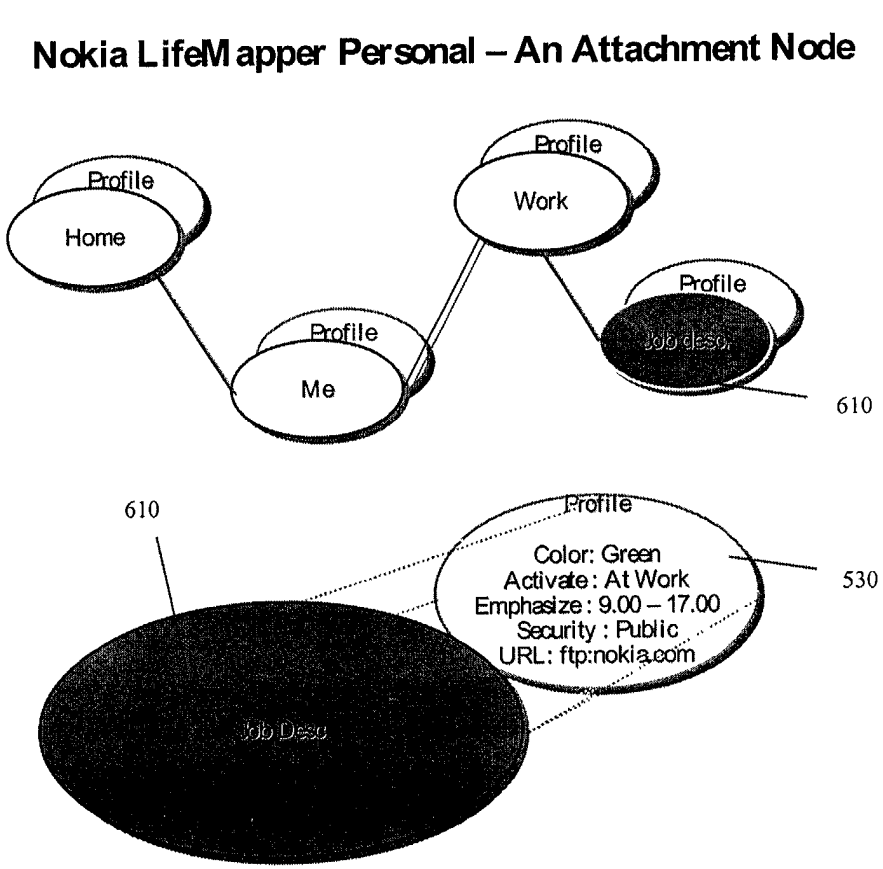


FIG. 8

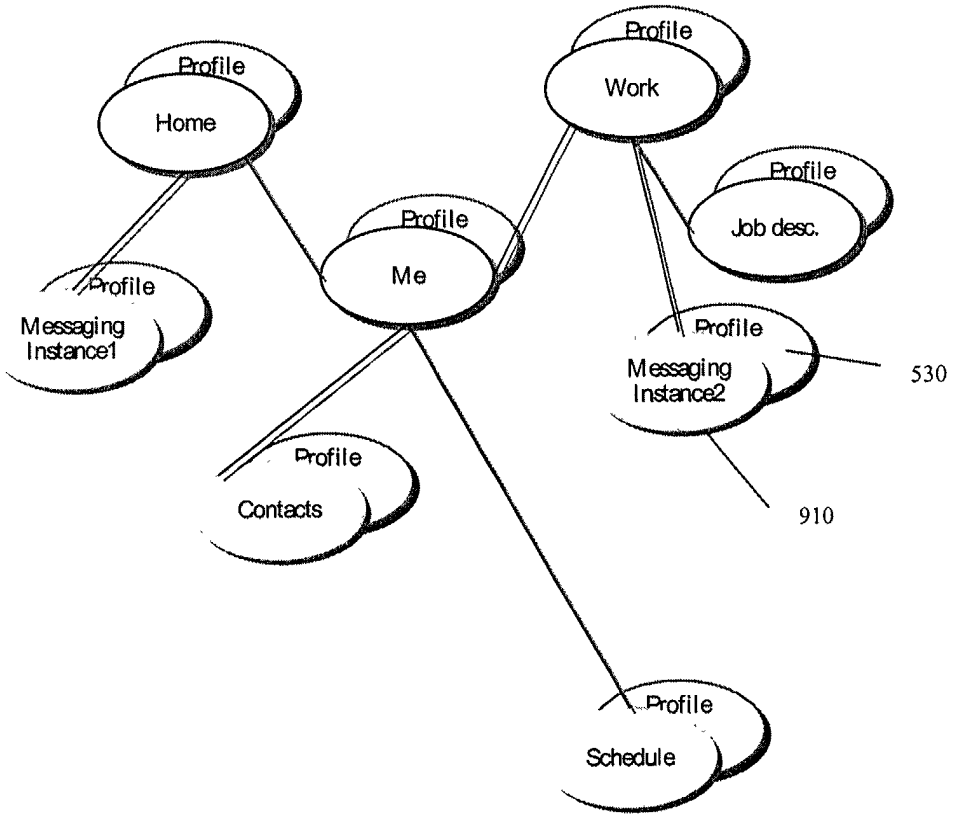

Nokia LifeMapper Personal – An Application Node
Profile
Home
Profile
Work
Profile
Job desc.
Profile
Me
Profile
Messaging Instance1
Profile
Messaging Instance2
530
Profile
Contacts
910
Profile
Schedule

FIG. 9A

20020627.0178200F

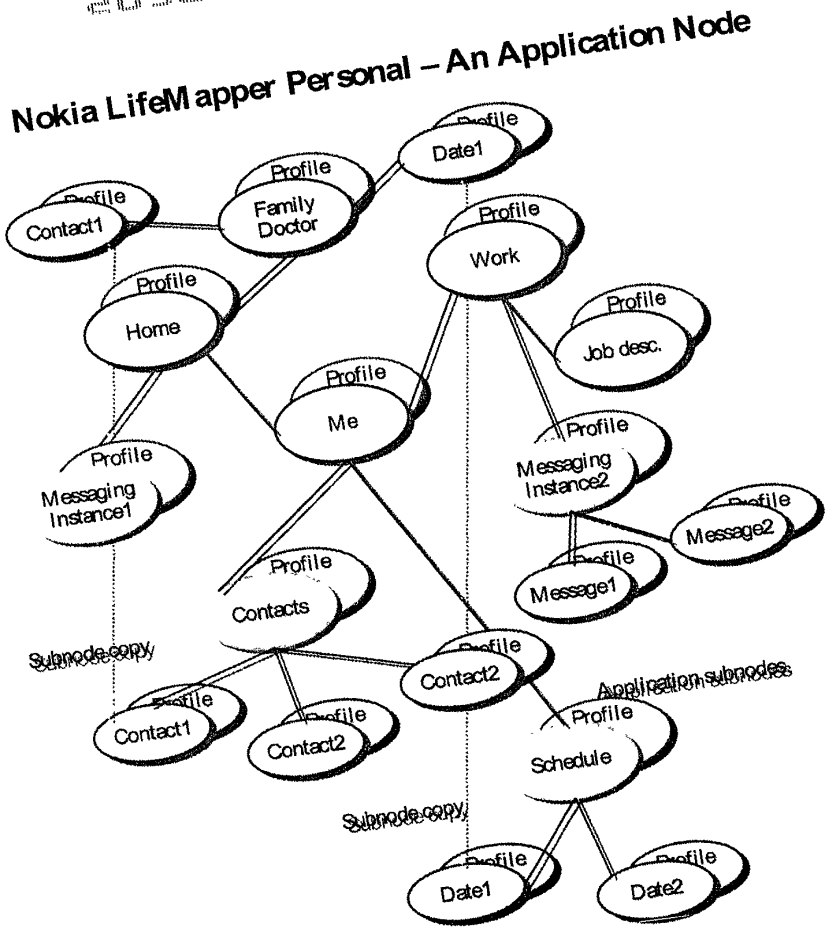
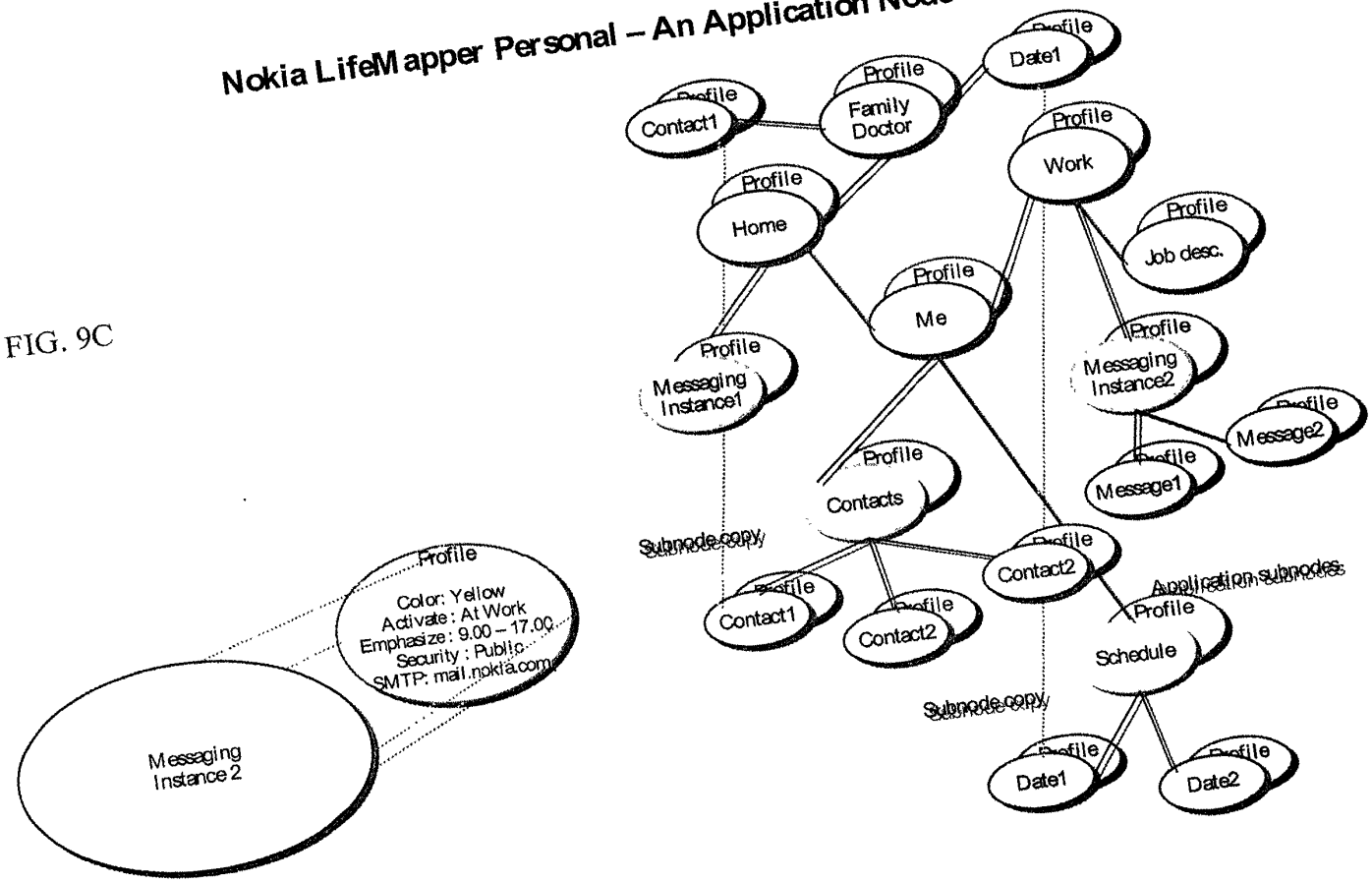


FIG. 9B

20020 04 18 2007

FIG. 9C



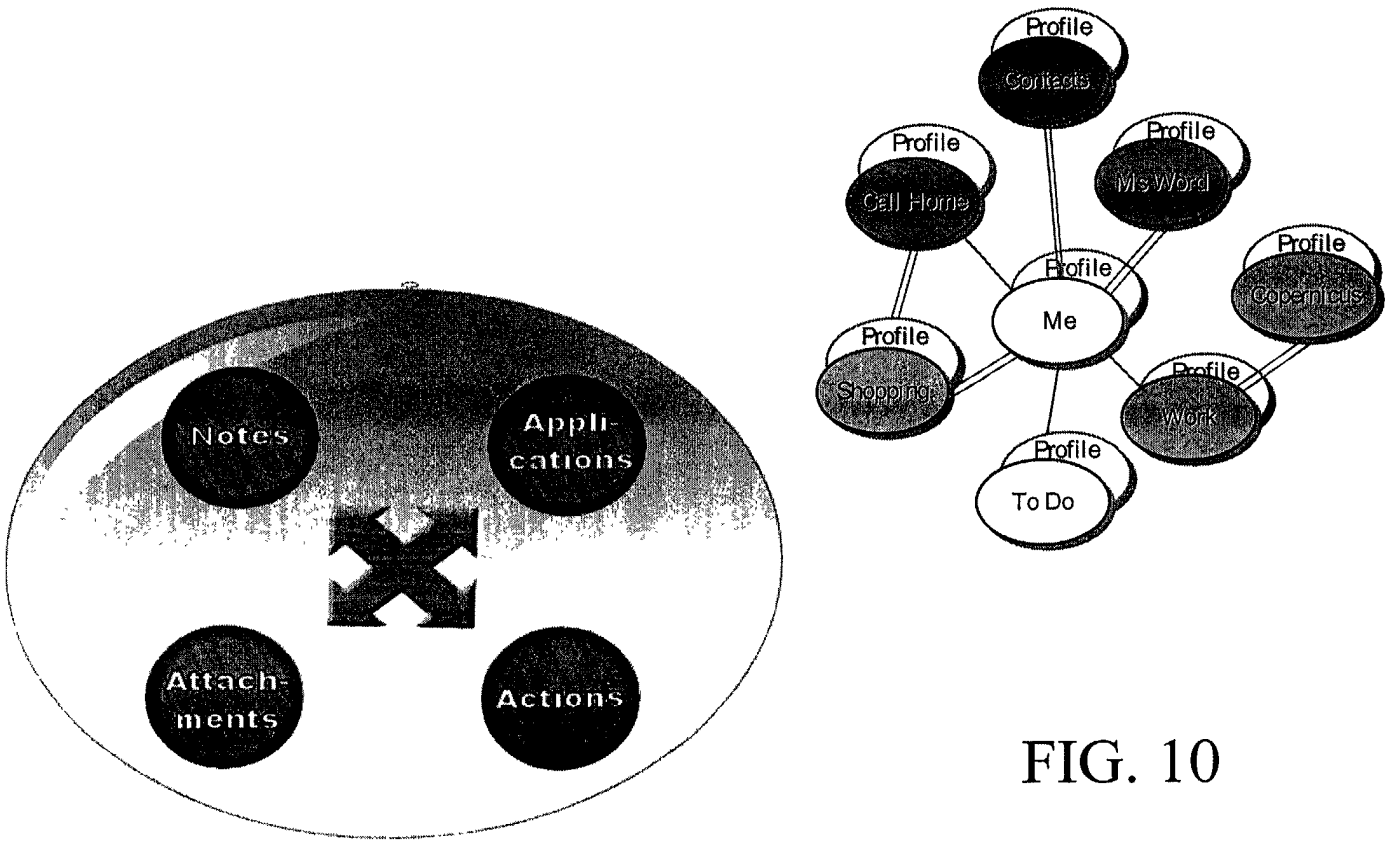

LifeMapper Personal Workspace
Notes
Appli-
cations
Attach-
ments
Actions
Profile
Contacts
Profile
Call Home
Profile
Ms Word
Profile
Me
Profile
Copernicus
Profile
Shopping
Profile
To Do

FIG. 10

3092E0 0278200T

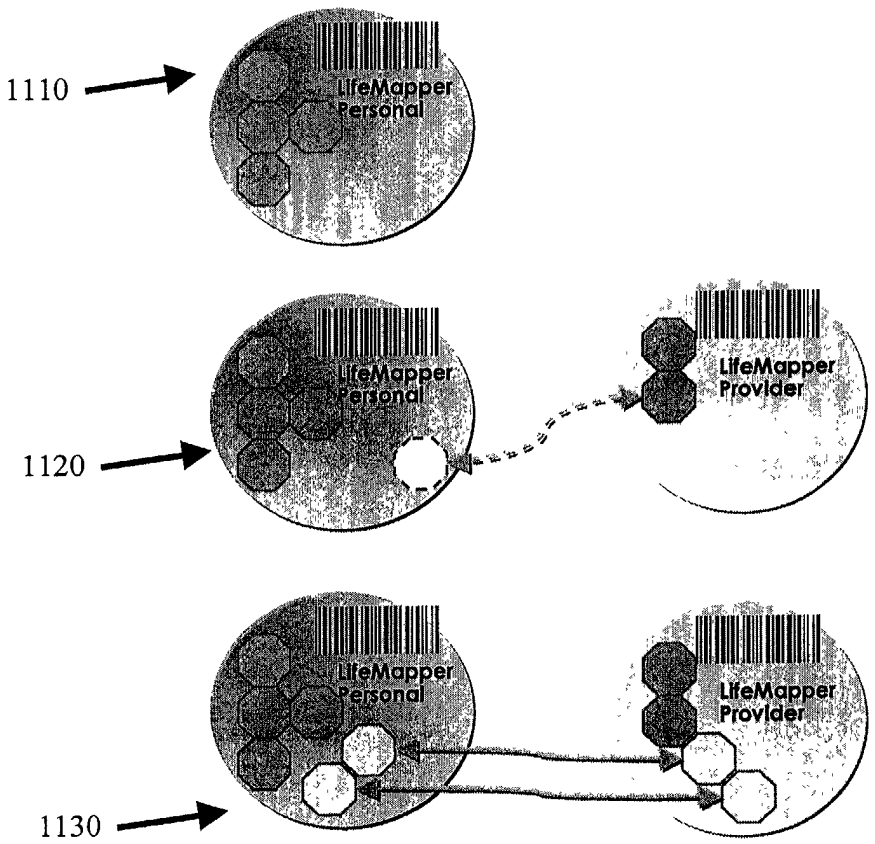
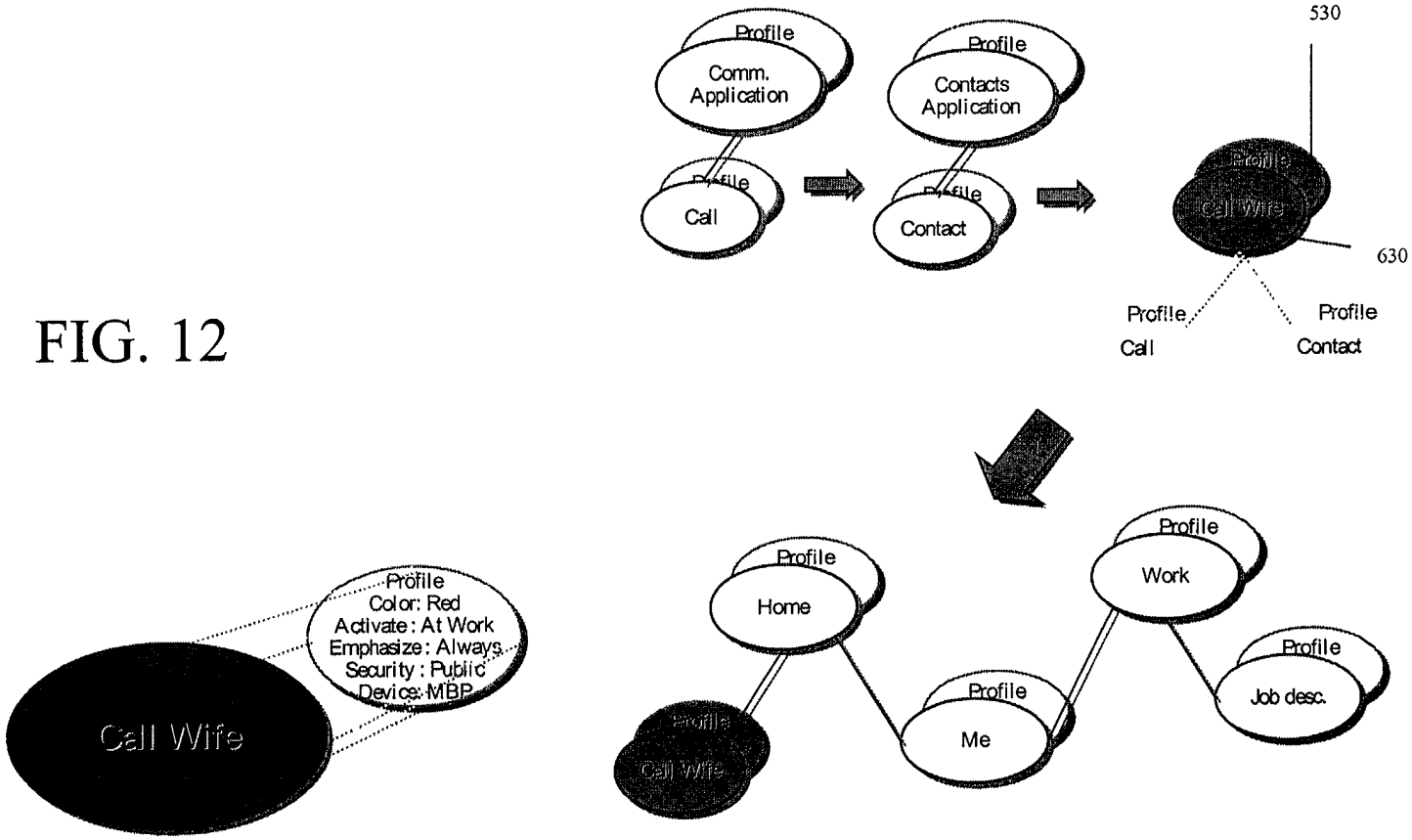


FIG. 11

FIG. 12


Nokia LifeMapper Personal – An Action Node
530
Profile
Comm. Application
Profile
Contacts Application
Profile
Call
Profile
Contact
Profile
Call Wife
630
Profile
Call
Profile
Contact
Profile
Color: Red
Activate: At Work
Emphasize: Always
Security: Public
Device: MBP
Call Wife
Profile
Home
Profile
Work
Profile
Job desc.
Profile
Me
Profile
Call Wife

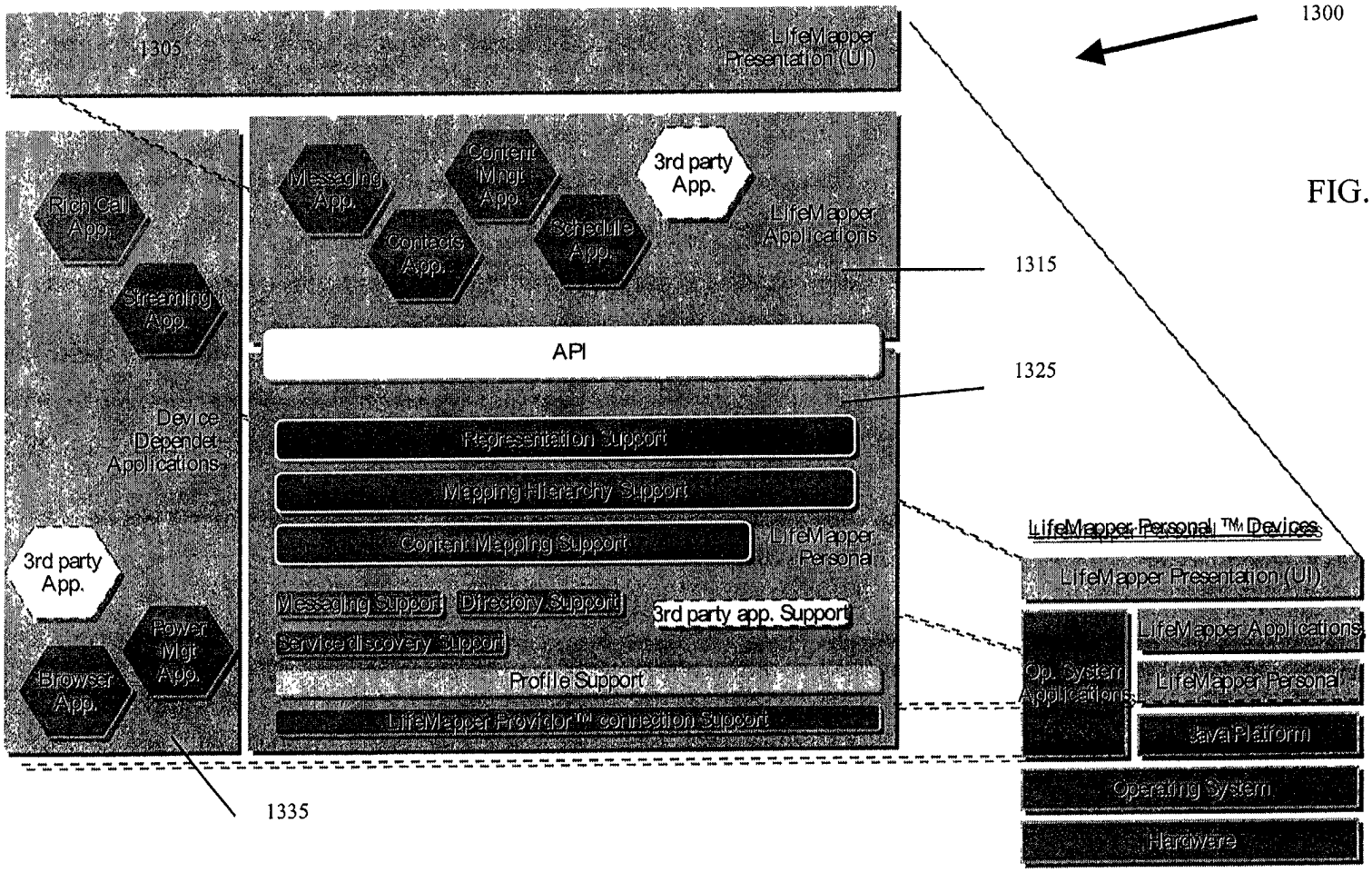

Nokia LifeMapper Personal - Architecture
1300
1305
LifeMapper Presentation (UI)
Messaging App.
Content Mngt App.
3rd party App.
Rich Call App.
Contacts App.
Schedule App.
LifeMapper Applications
1315
Streaming App.
API
1325
Device Dependet Applications
Representation Support
Mapping Hierarchy Support
Content Mapping Support
LifeMapper Personal
3rd party App.
Messaging Support
Directory Support
3rd party app. Support
Power Mgt App.
Service discovery Support
Browser App.
Profile Support
LifeMapper Provider™ connection Support
1335
LifeMapper Personal™ Devices
LifeMapper Presentation (UI)
Op. System Applications
LifeMapper Applications
LifeMapper Personal
Java Platform
Operating System
Hardware

FIG. 13

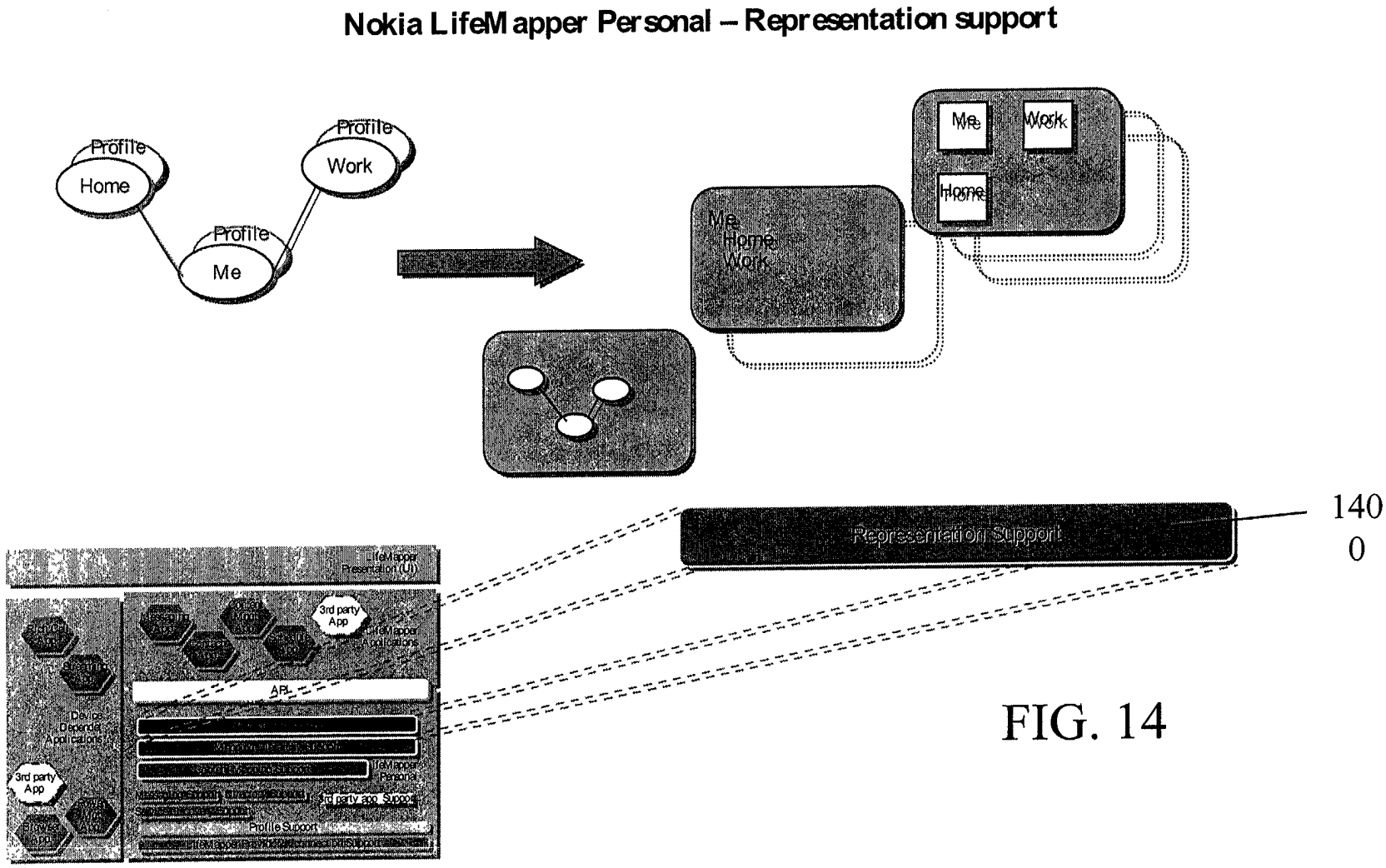

Nokia LifeMapper Personal – Representation support
Profile
Home
Profile
Work
Profile
Me
Me
Work
Home
Me
Home
Work
Representation Support
1400
LifeMapper Presentation (UI)
3rd party App
LifeMapper Applications
API
Device Dependent Applications
3rd party App
LifeMapper Personal
3rd party app Support
Profile Support

FIG. 14

Nokia LifeMapper Personal – Mapping Hierarchy Support

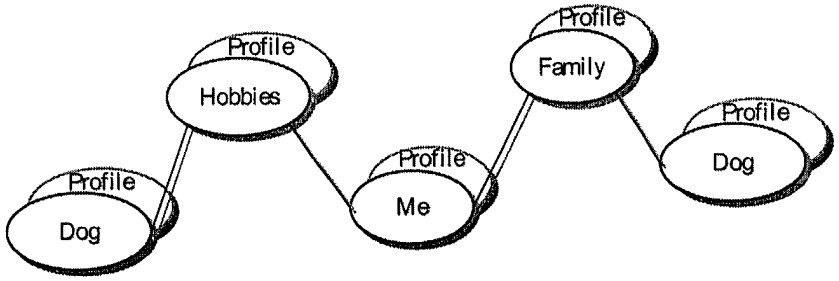
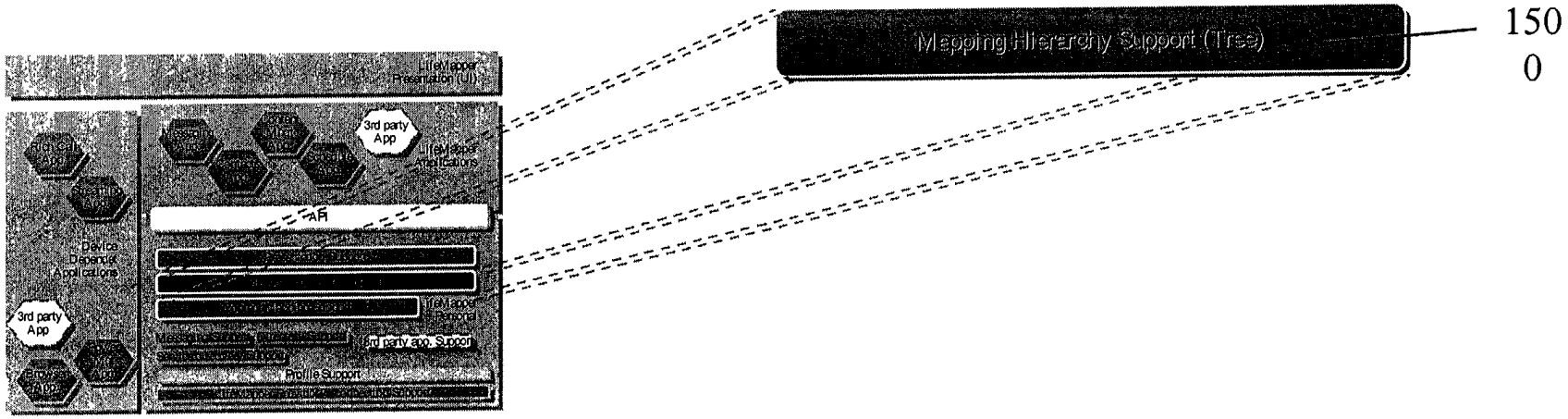


FIG. 15



Nokia LifeMapper Personal – Content Hierarchy Support

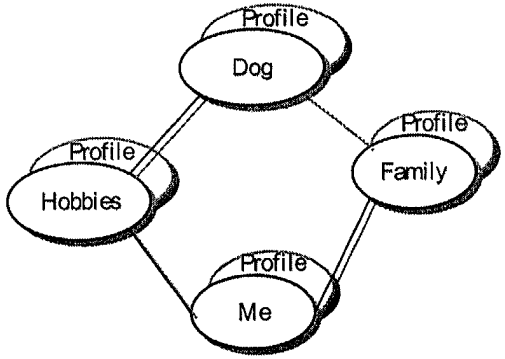
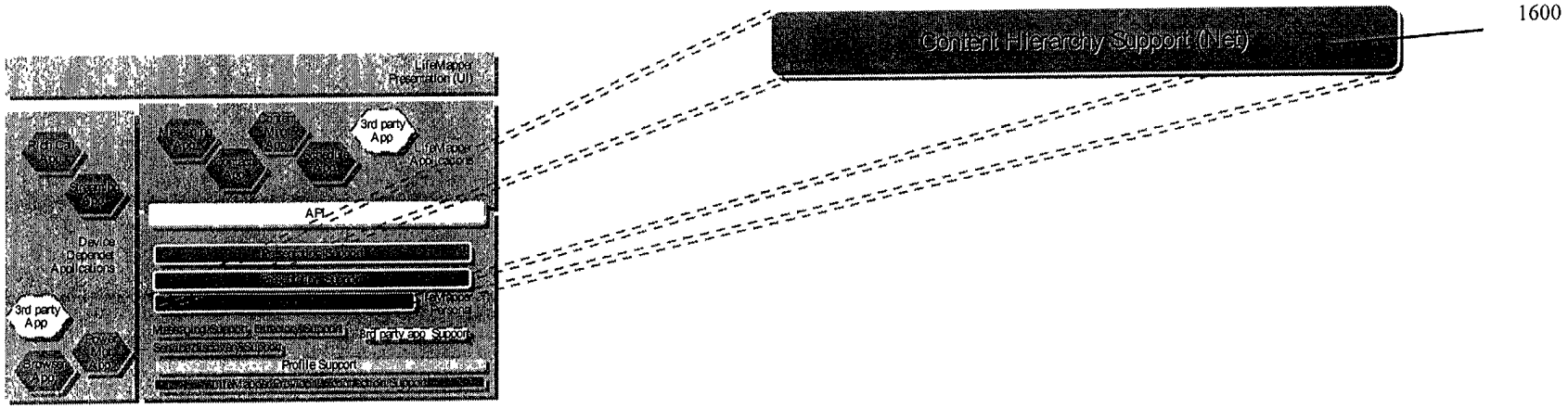


FIG. 16



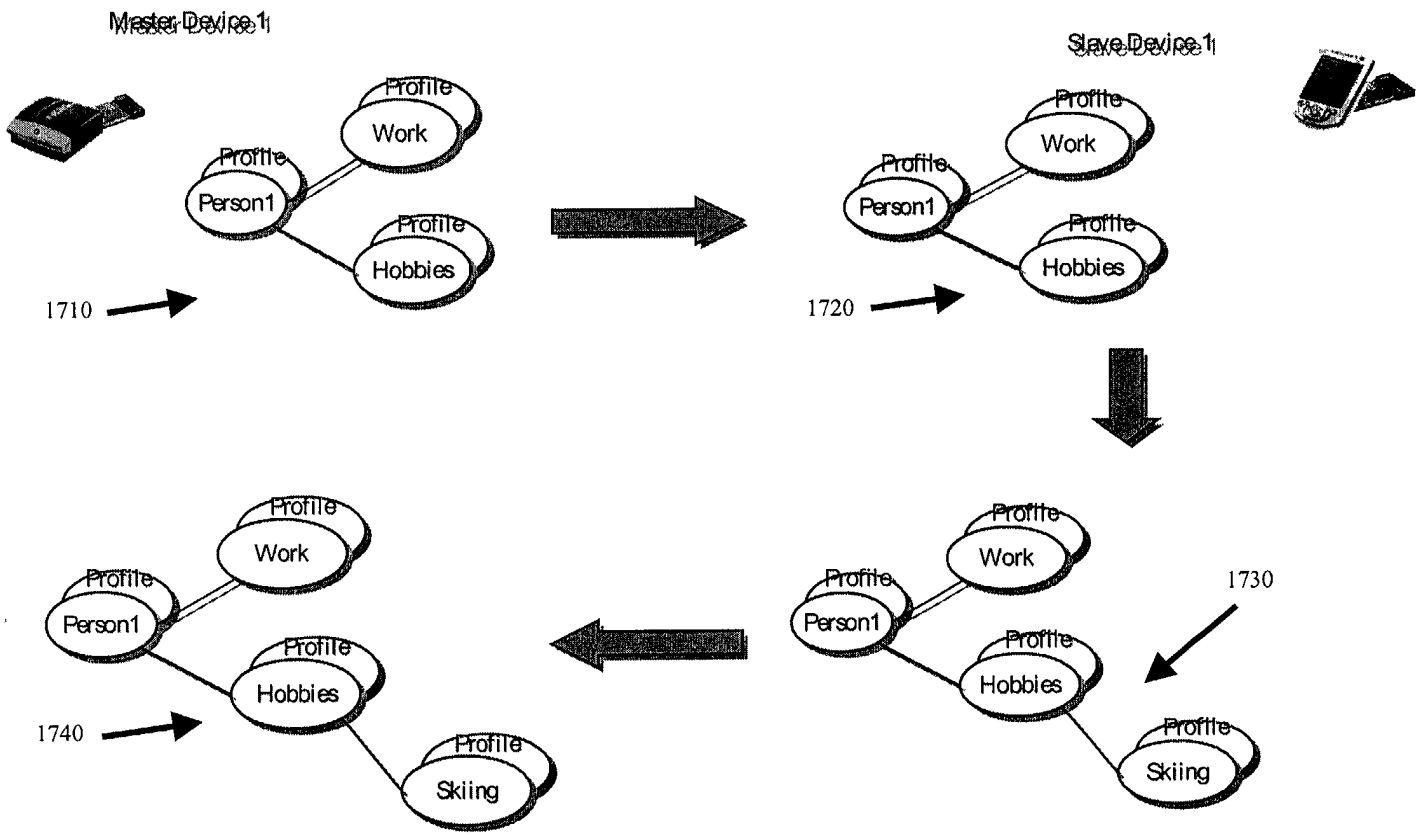

Nokia LifeMapper Personal – Master Slave Communication
Master Device 1
Slave Device 1
Profile
Work
Person1
Hobbies
Skiing
1710
1720
1730
1740

FIG. 17

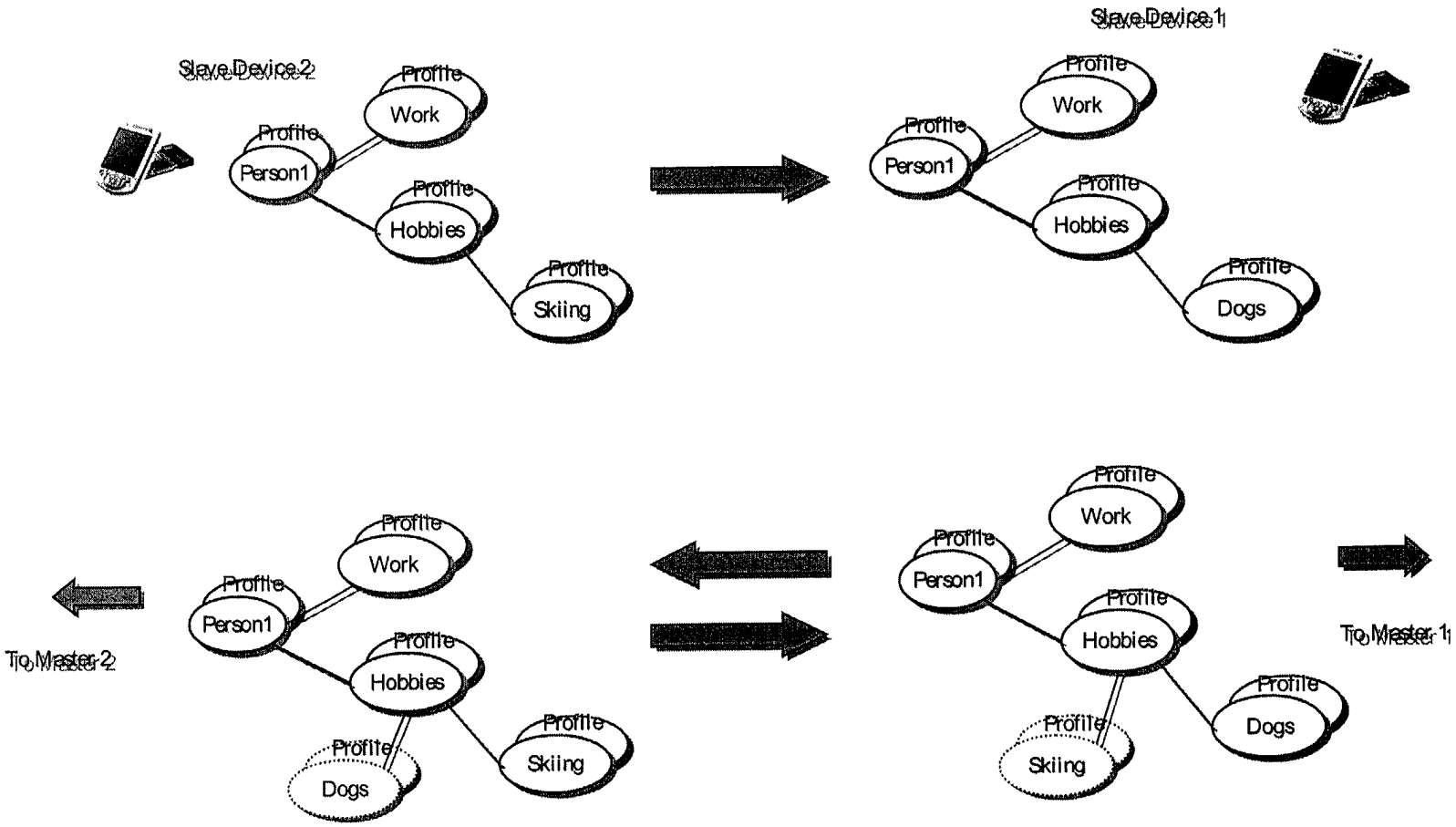

Nokia LifeMapper Personal – Peer to Peer Communication
Slave Device 2
Profile
Work
Person1
Hobbies
Skiing
Slave Device 1
Dogs
To Master 2
To Master 1

FIG. 18

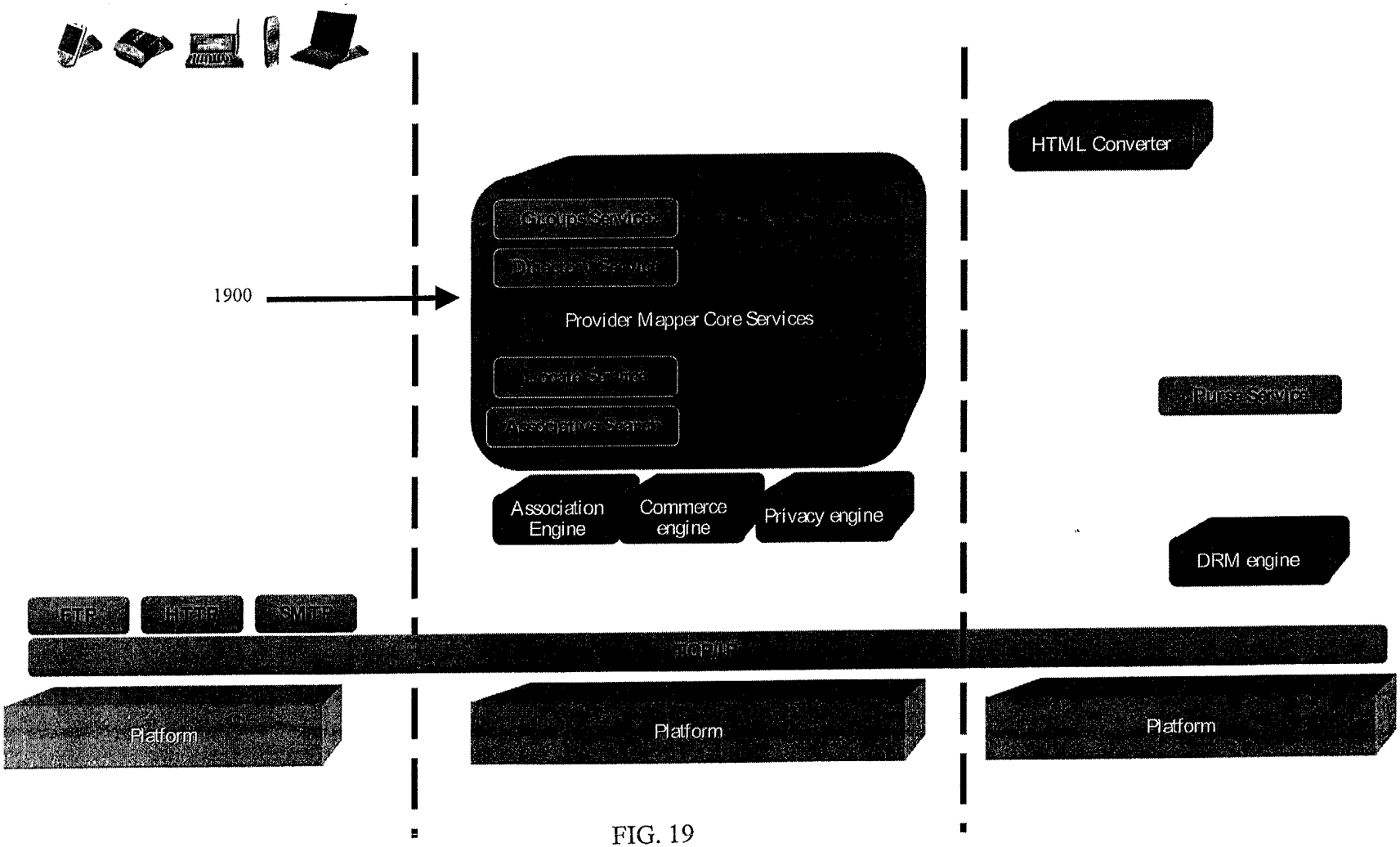

Nokia LifeMapper Provider -Architecure
1900
Provider Mapper Core Services
HTML Converter
Association Engine
Commerce engine
Privacy engine
DRM engine
FTP
HTTP
SMTP
Platform
Platform
Platform

FIG. 19

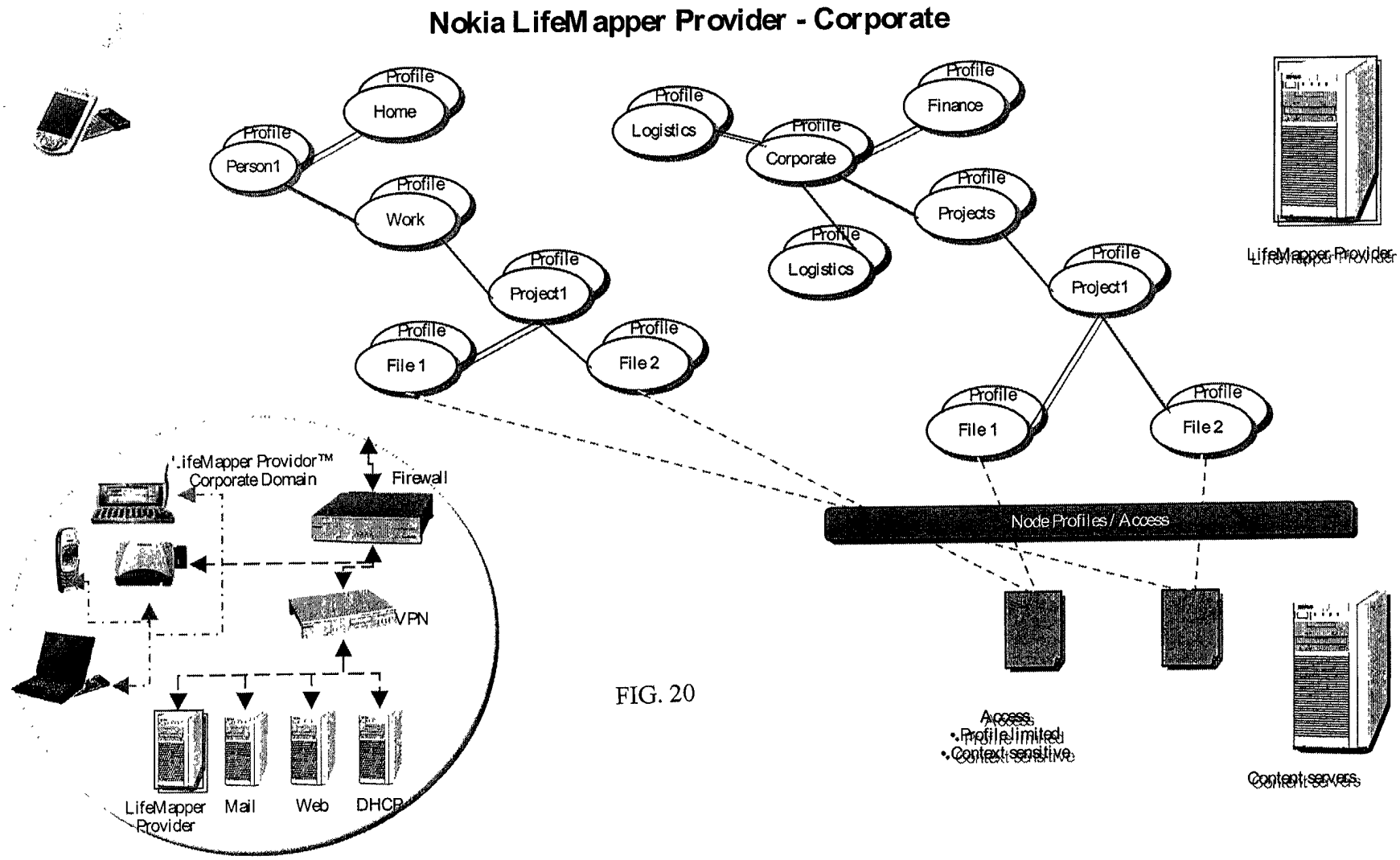

Nokia LifeMapper Provider - Corporate
Profile
Home
Person1
Work
Project1
File 1
File 2
Logistics
Corporate
Finance
Projects
Logistics
Project1
File 1
File 2
LifeMapper Provider
LifeMapper Providor™
Corporate Domain
Firewall
VPN
LifeMapper
Provider
Mail
Web
DHCP
Node Profiles / Access
Access
• Profile limited
• Context sensitive
Content servers

FIG. 20

20926E0" 0270320DT

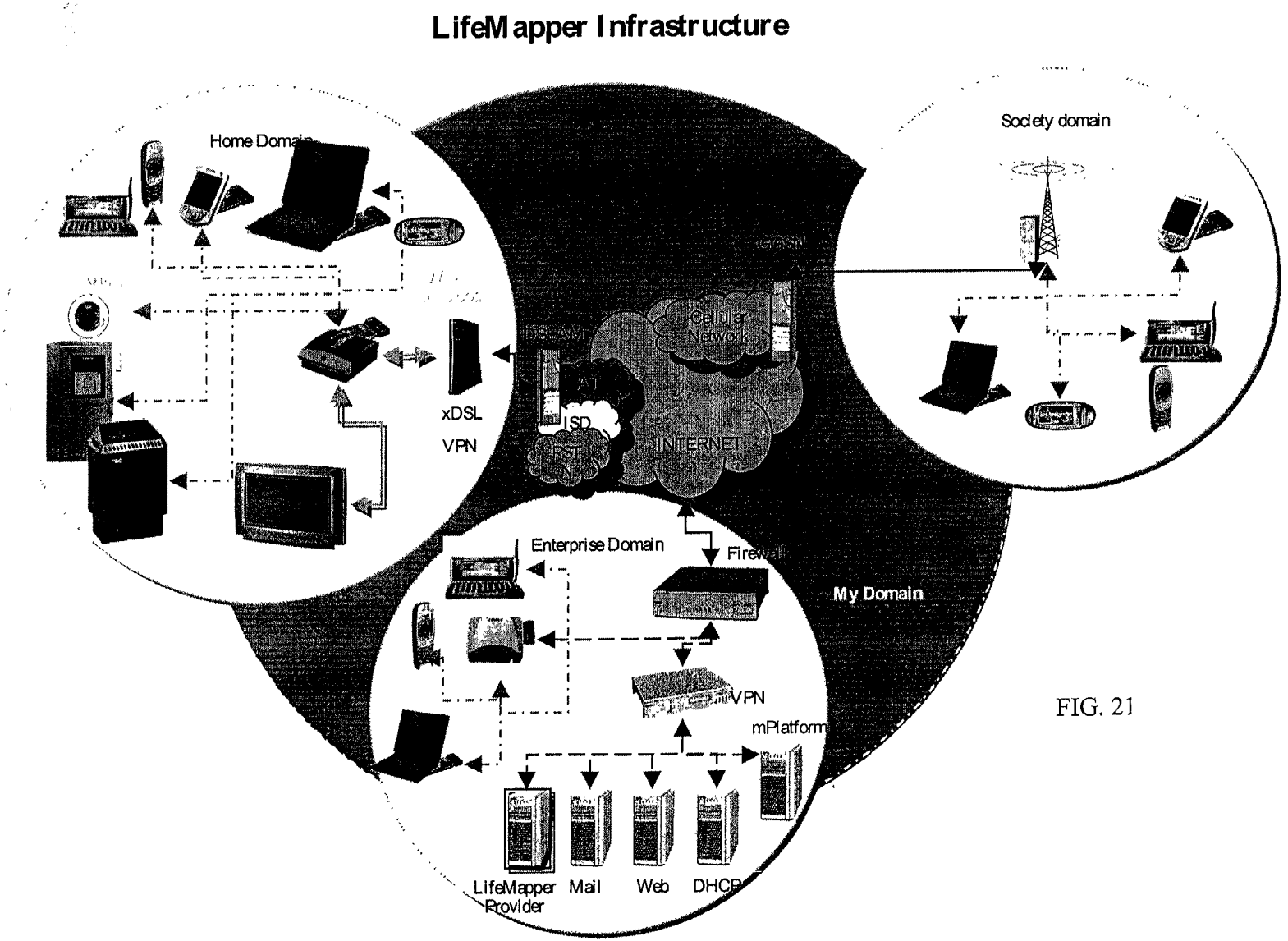


FIG. 21

How? LifeMapper as Core Element in My Domain

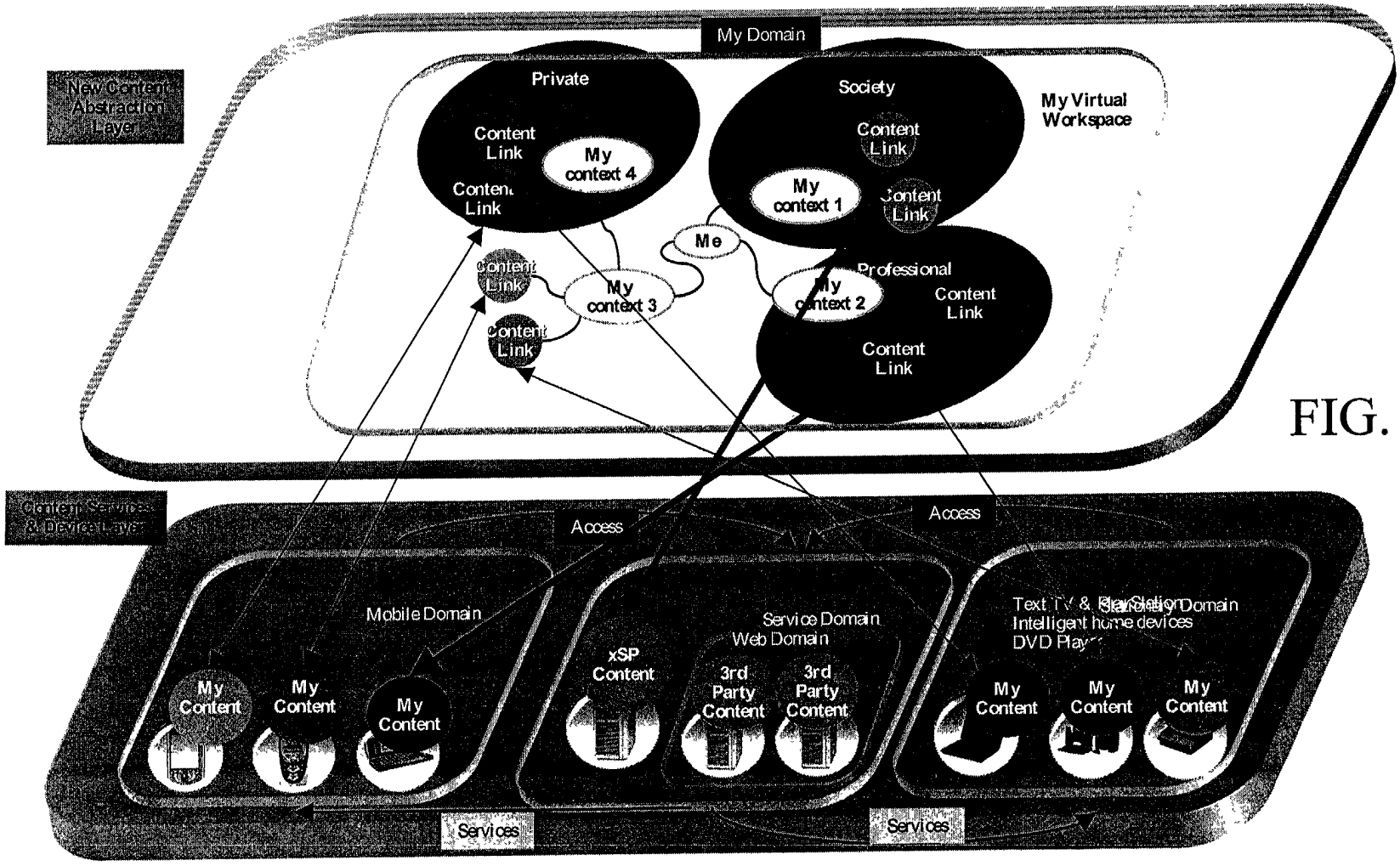


FIG. 22

20926D" 0218200T

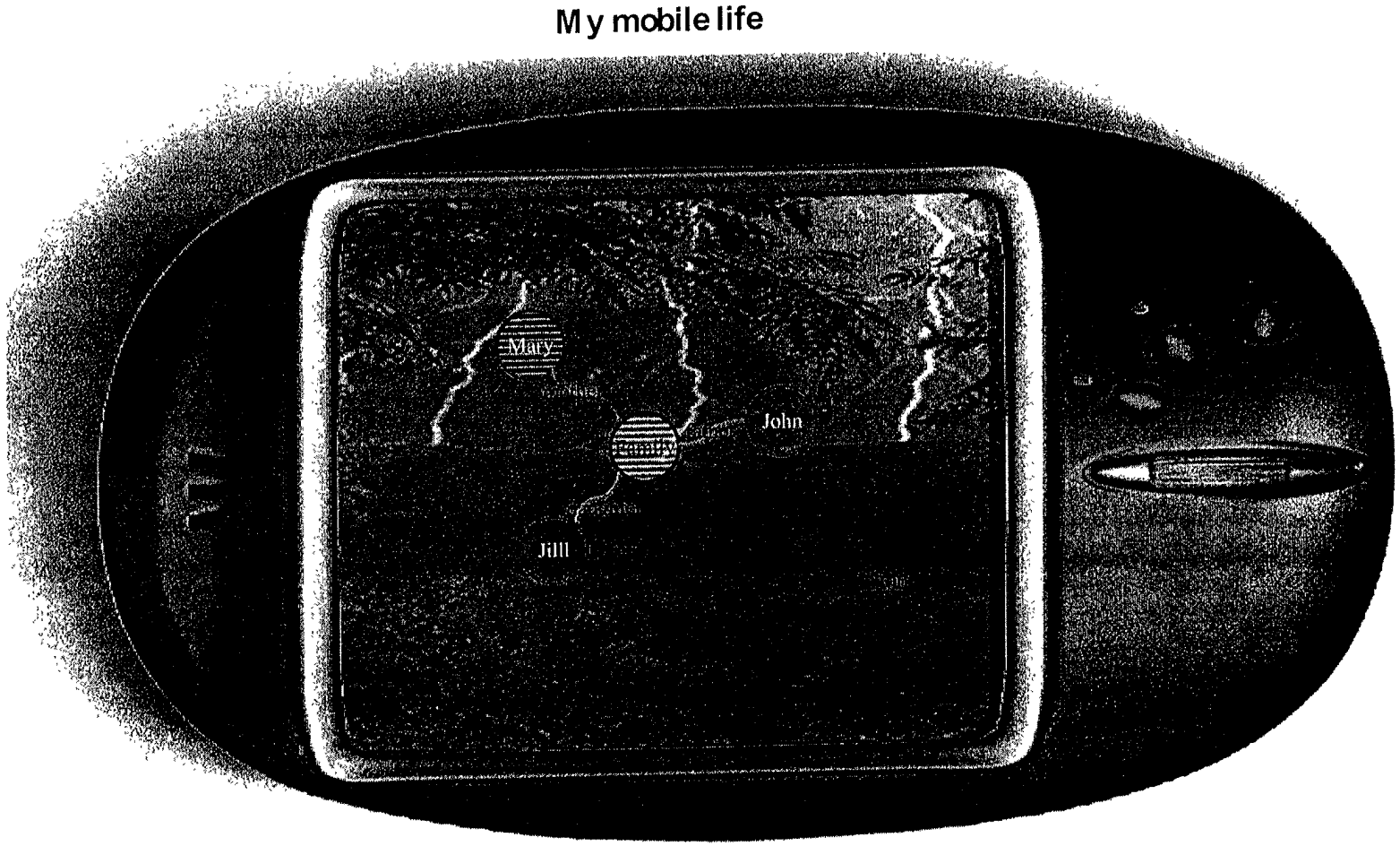


FIG 23A

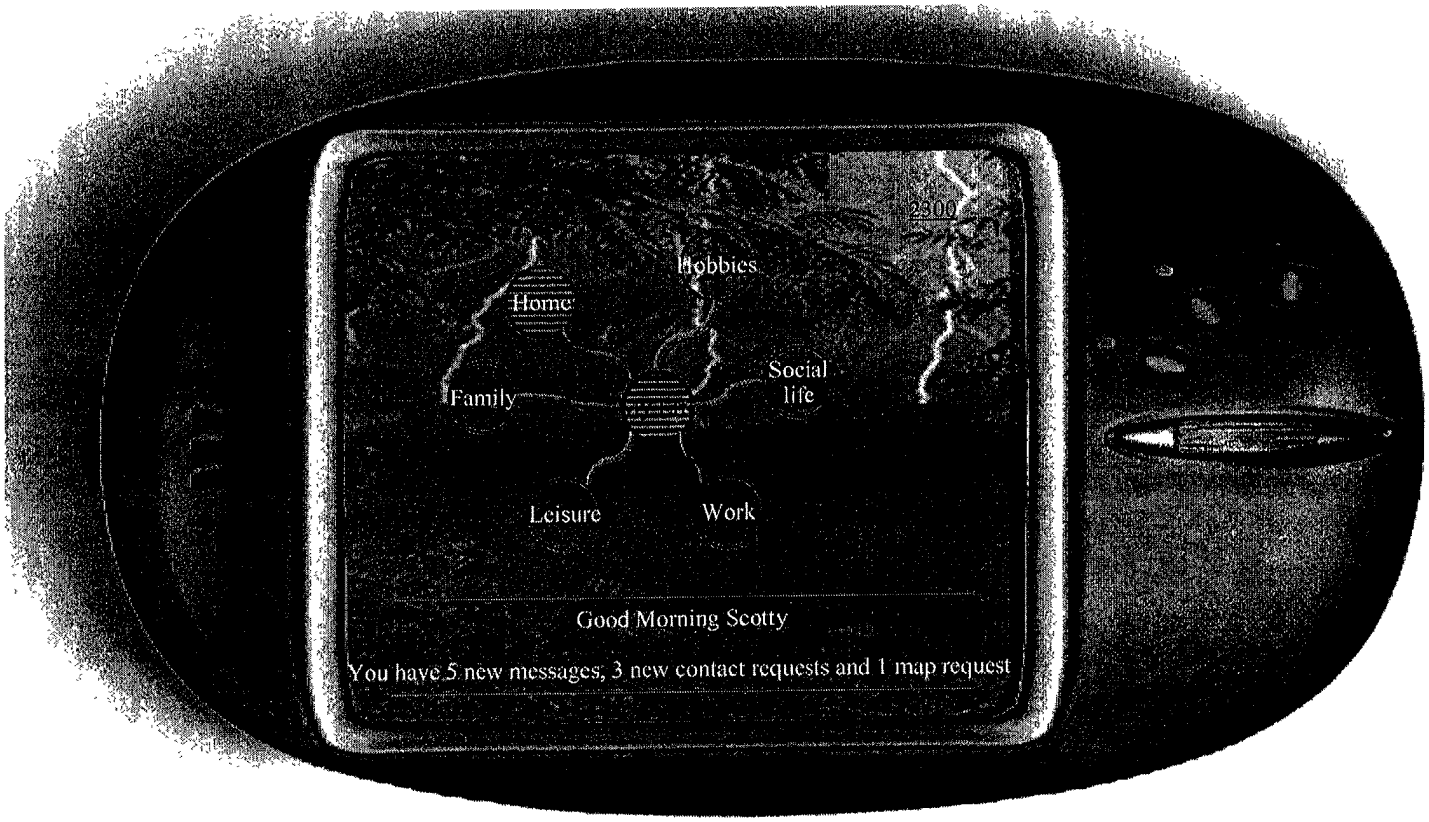

My mobile life
2300
Hobbies
Home
Social life
Family
Leisure
Work
Good Morning Scotty
You have 5 new messages, 3 new contact requests and 1 map request

Figure 23B

20926D"0478200T

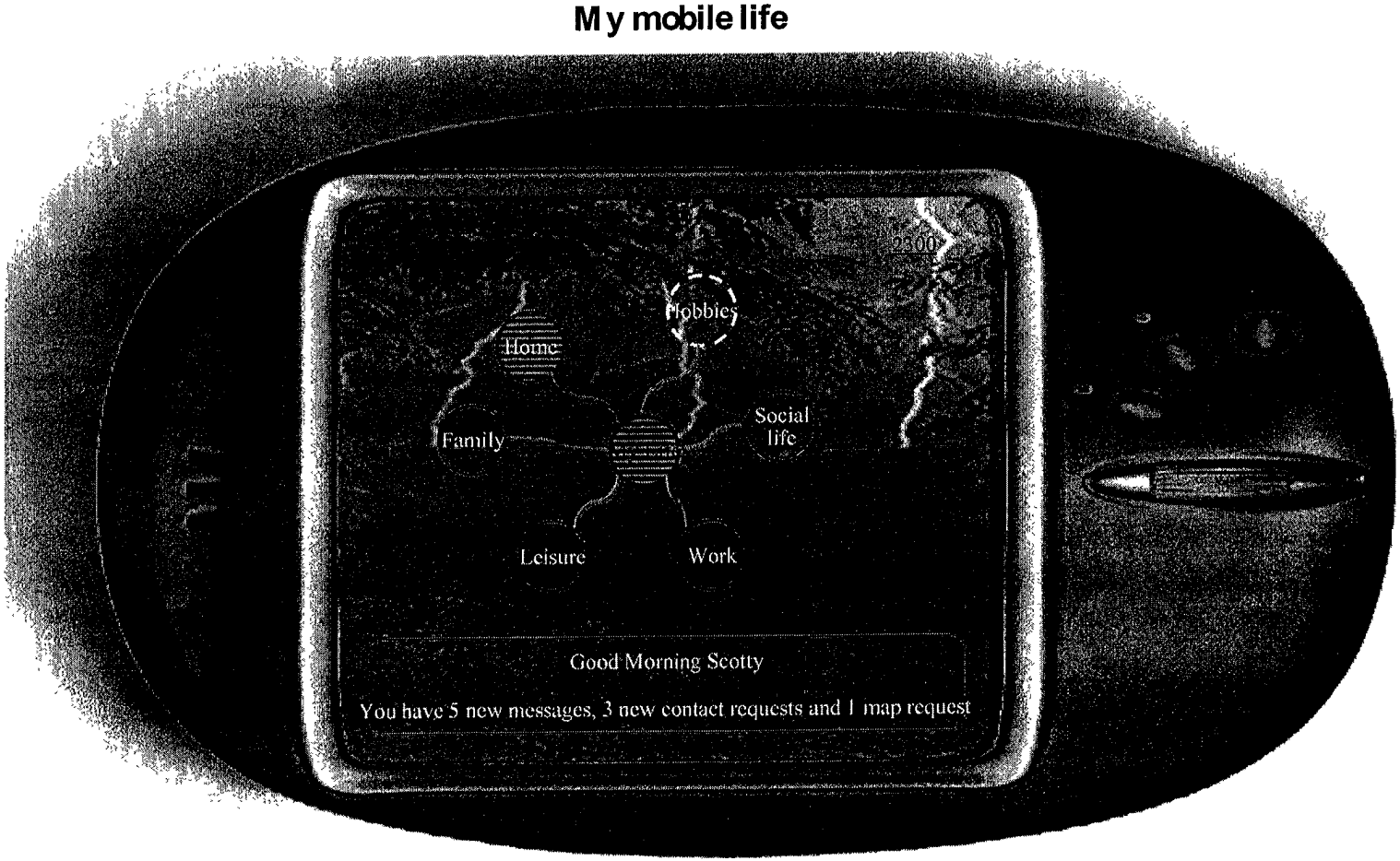


Figure 23C

3092E0" 02T82001

I organise

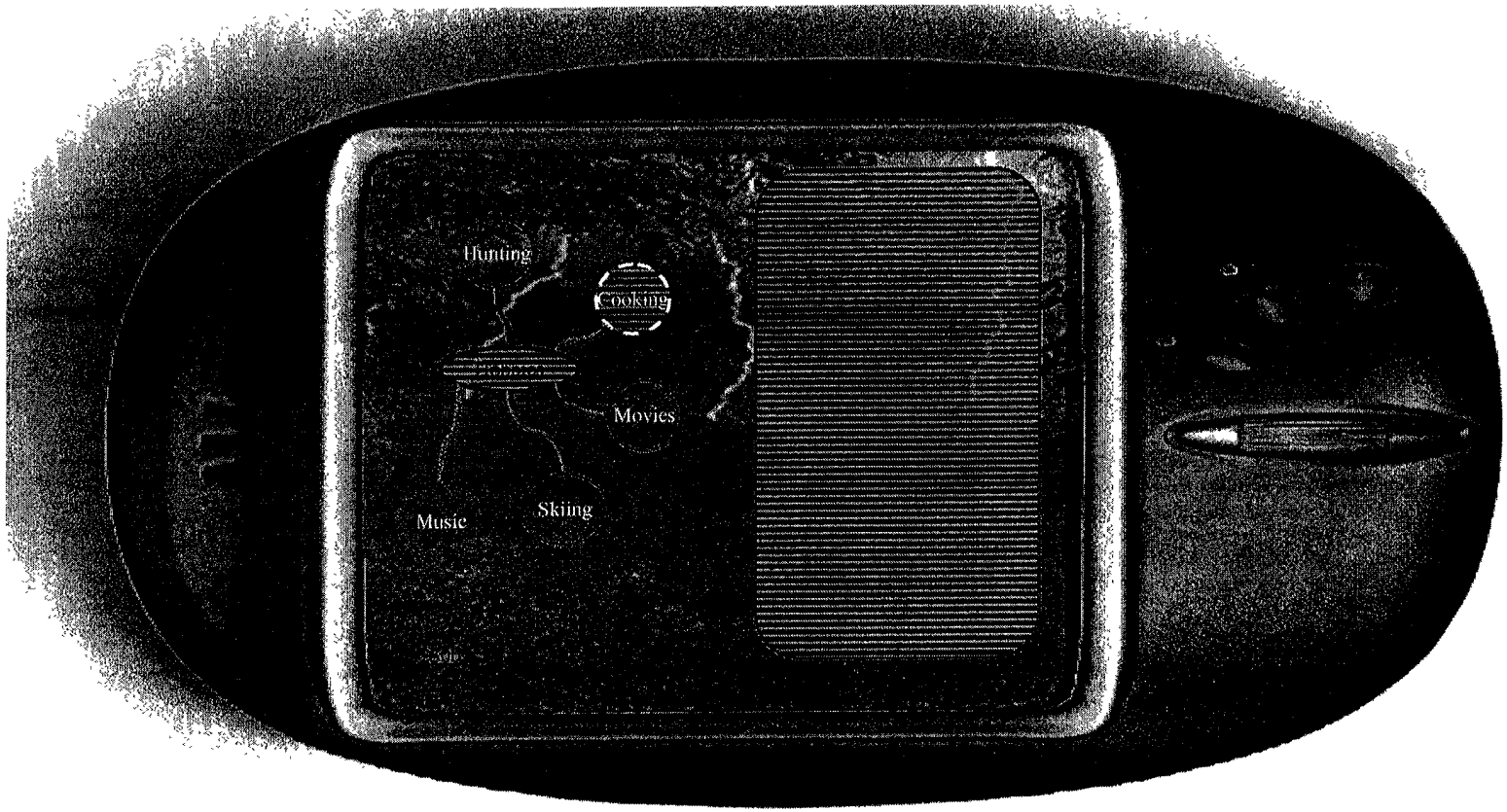


Figure 23D

20926D" 0478200T

I organise

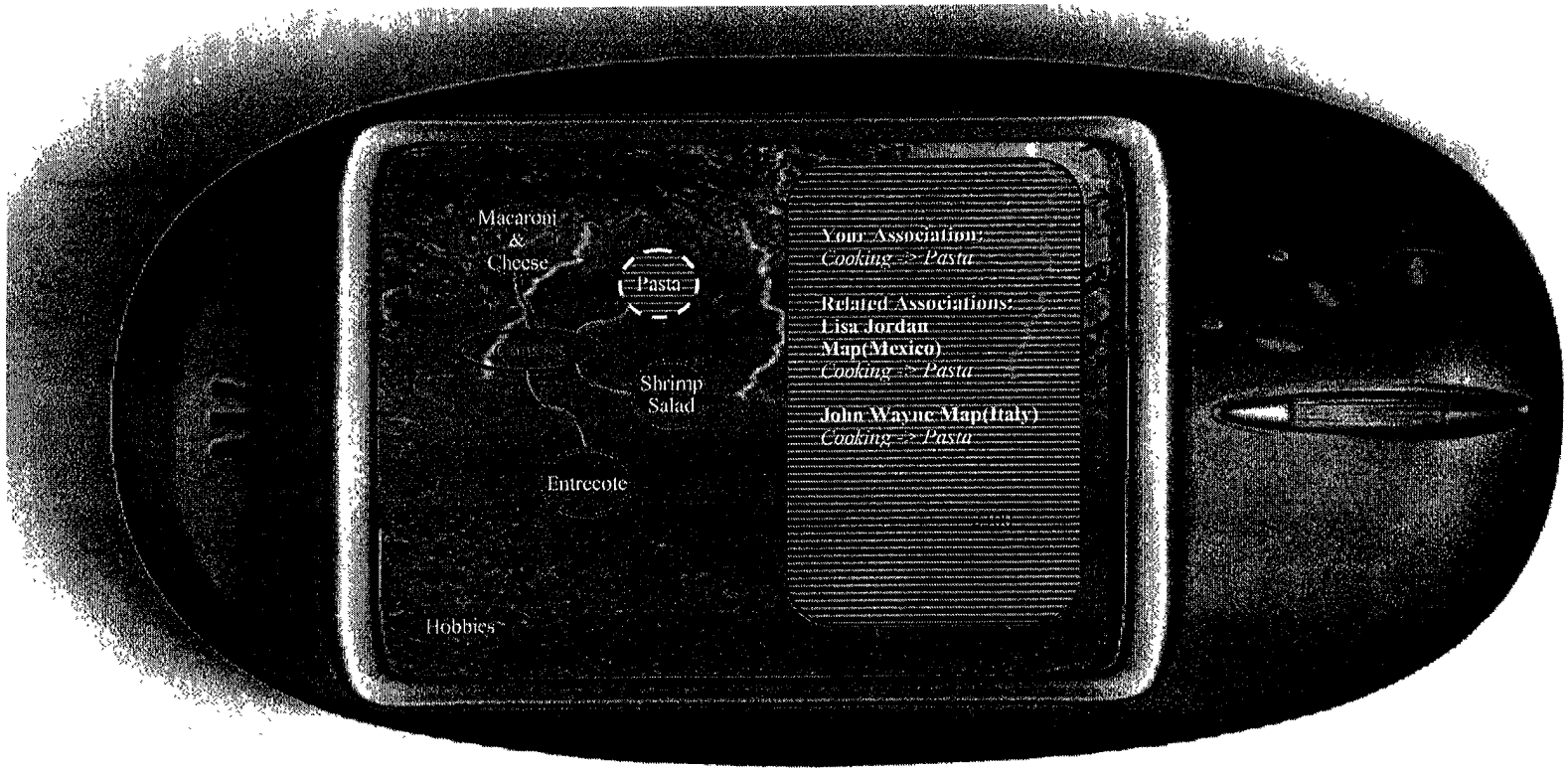


Figure 23E

2092E0 "0278200T

I collaborate

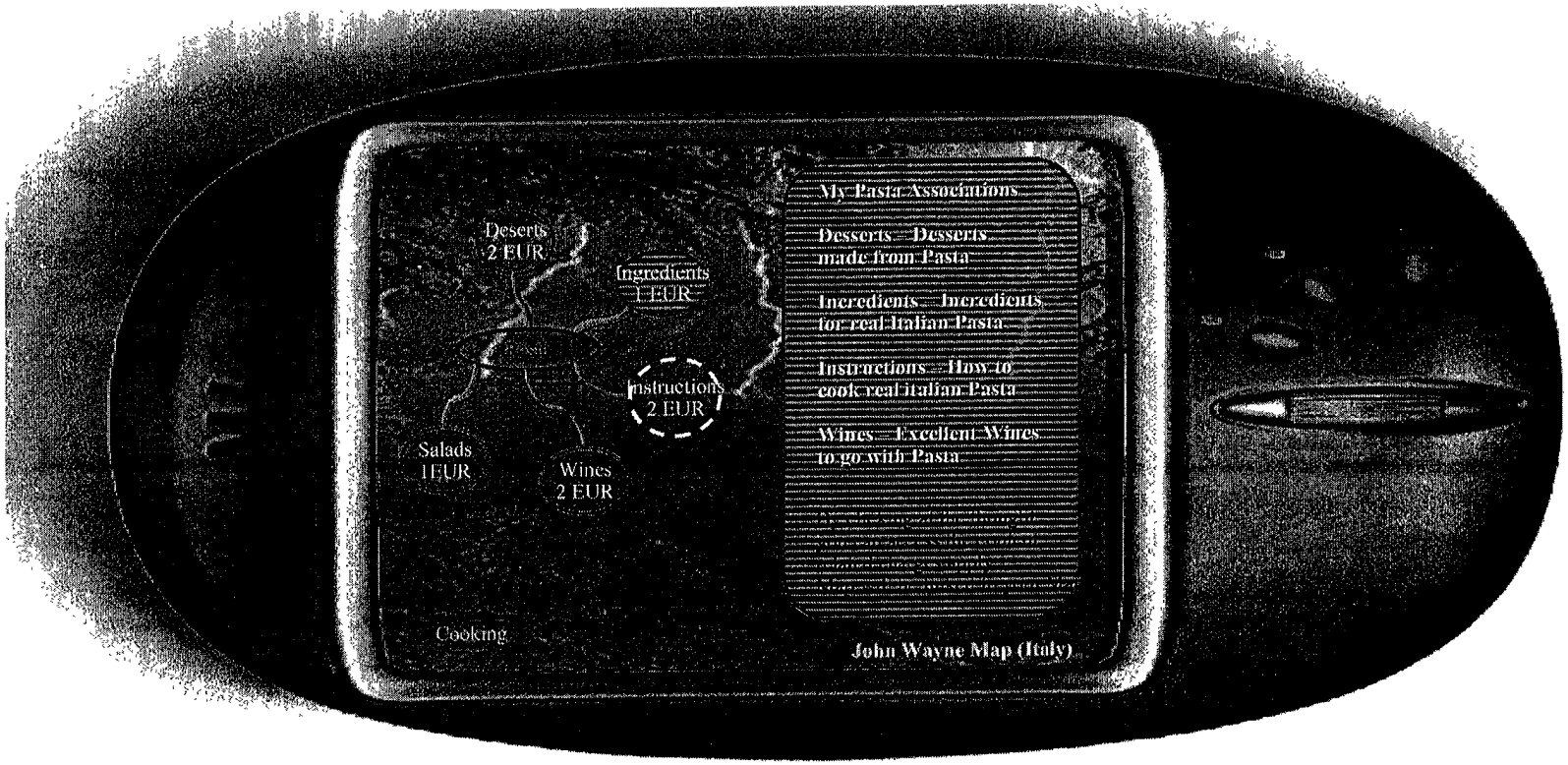


Figure 23F

I understand
1. Flour
2. Pasta Machine
3. Boiling
4. Spice
Salads 1EUR
5. Sauce
Your purse will be charged:
2 EUR
Pasta
Current Balance 1580 EUR
Instructions for Pasta
flour:
durumwheet
tomato 4%
spinach 2%
Boiling:
30 minutes
Sauce:
ground beef
tomato puree
etc.
Spice:
Basil
Brown the ground beef
Add tomato puree
Add Spice
John Wayne Map (Italy)

Figure 23G

209250 "027820DT

I understand

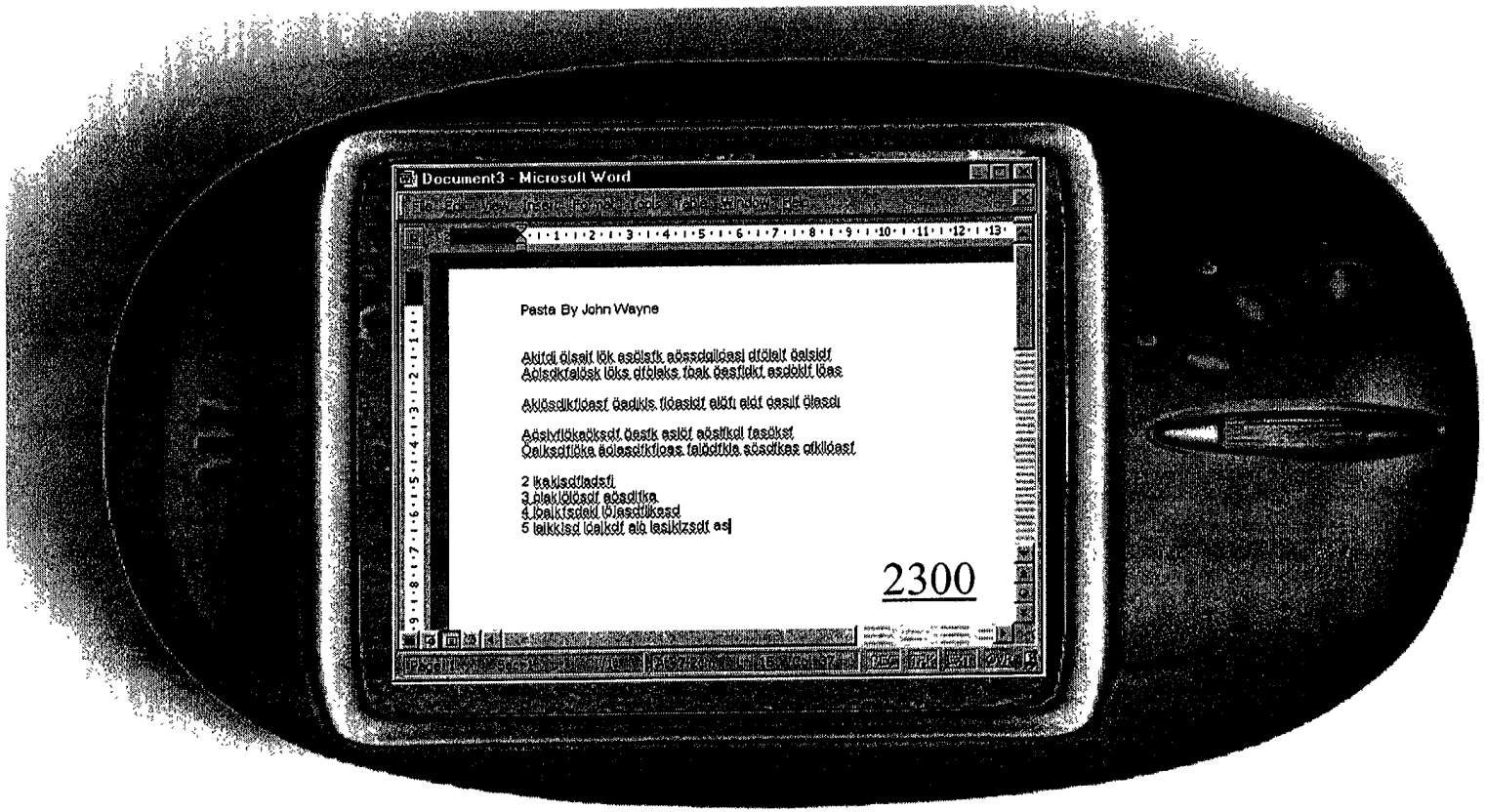


Figure 23H

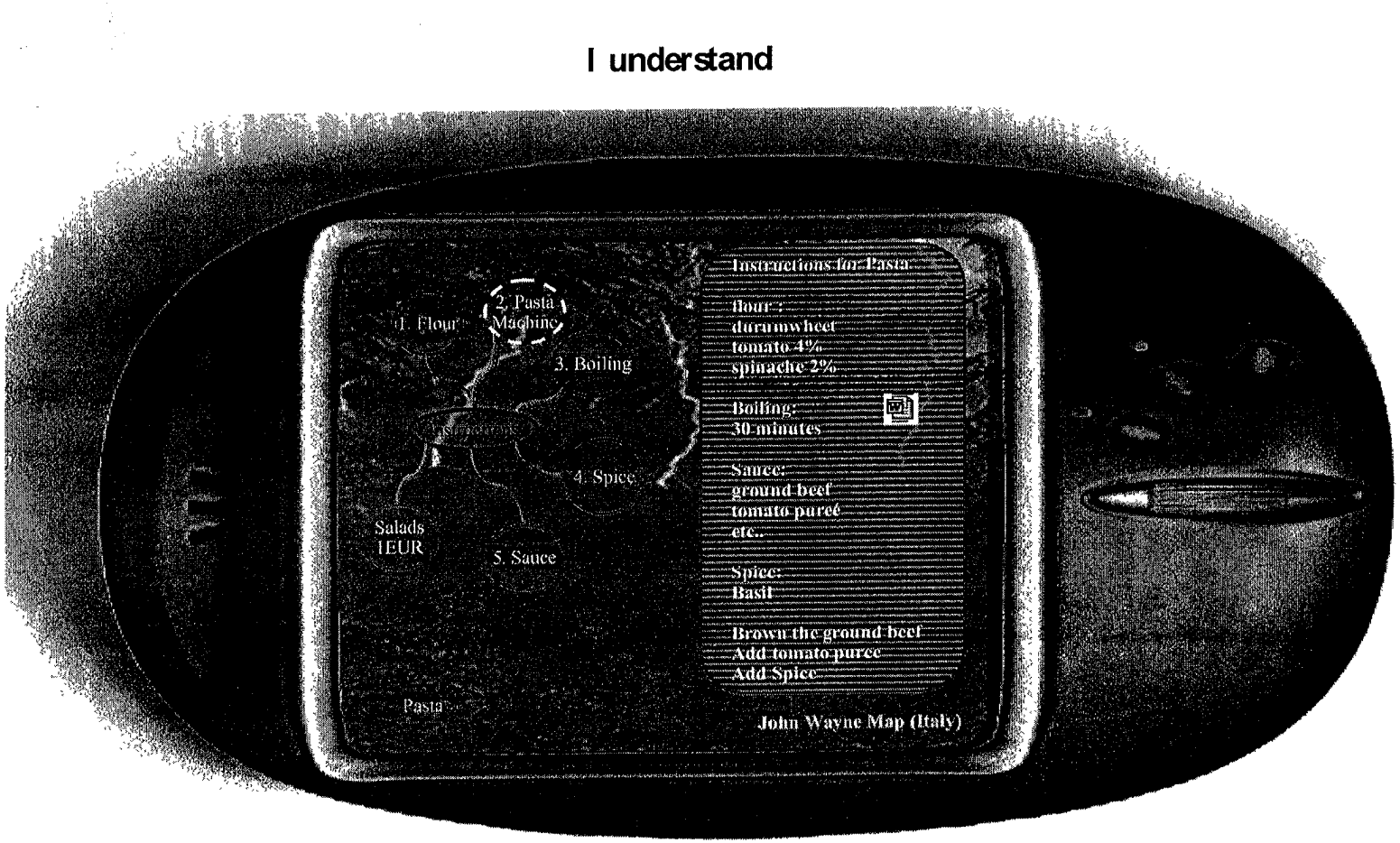

I understand
1. Flour
2. Pasta Machine
3. Boiling
4. Spice
5. Sauce
Salads 1EUR
Pasta
Instructions for Pasta:
flour:
durum wheat
tomato 4%
spinache 2%
Boiling:
30 minutes
Sauce:
ground beef
tomato puree
etc..
Spice:
Basil
Brown the ground beef
Add tomato puree
Add Spice
John Wayne Map (Italy)

Figure 23I

20926D" 0278320DT

I understand

Figure 23J

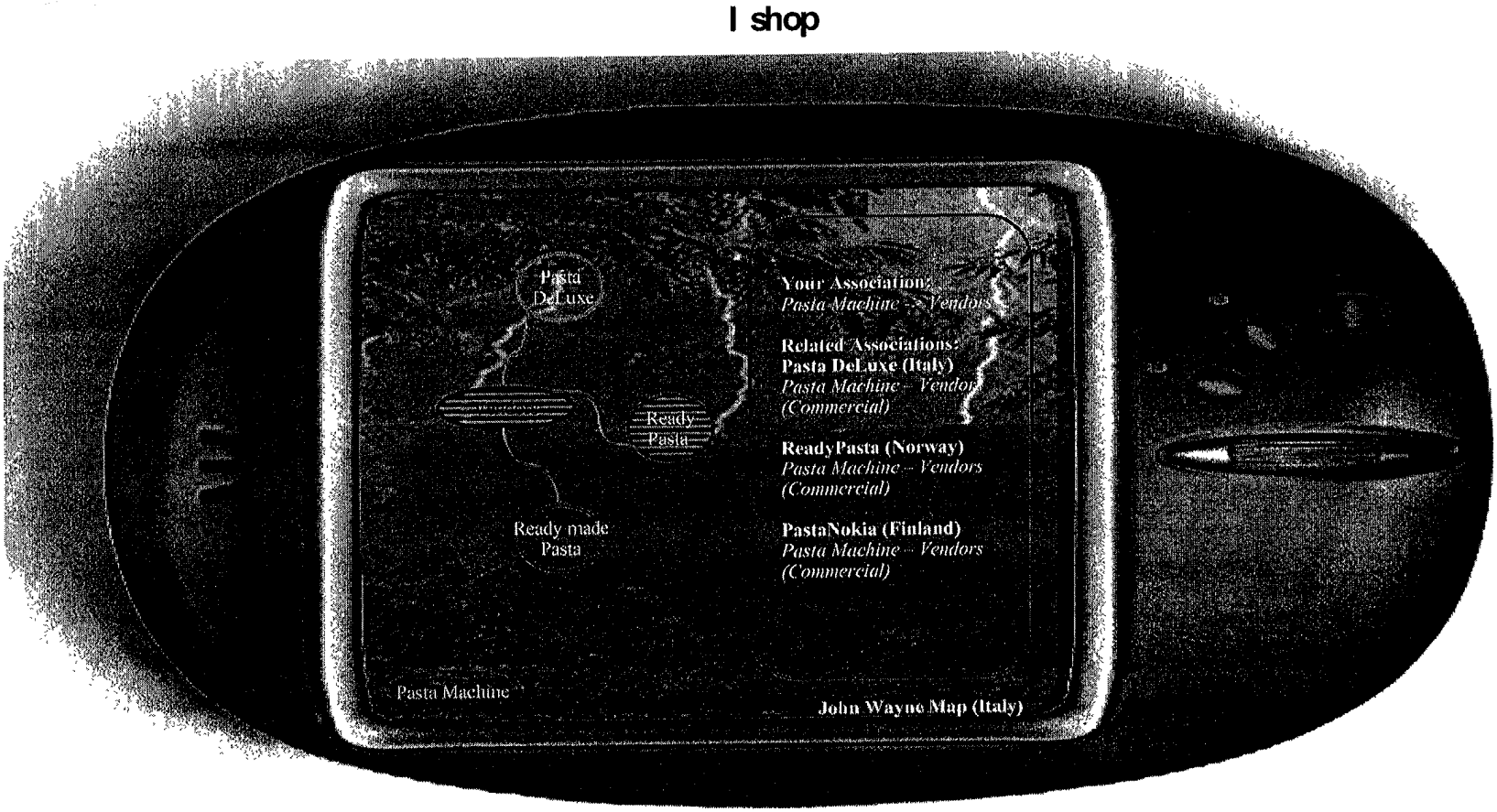

I shop
Pasta DeLuxe
Ready Pasta
Ready made Pasta
Pasta Machine
Your Association:
Pasta Machine – Vendors
Related Associations:
Pasta DeLuxe (Italy)
Pasta Machine – Vendors (Commercial)
ReadyPasta (Norway)
Pasta Machine – Vendors (Commercial)
PastaNokia (Finland)
Pasta Machine – Vendors (Commercial)
John Wayne Map (Italy)

Figure 23K

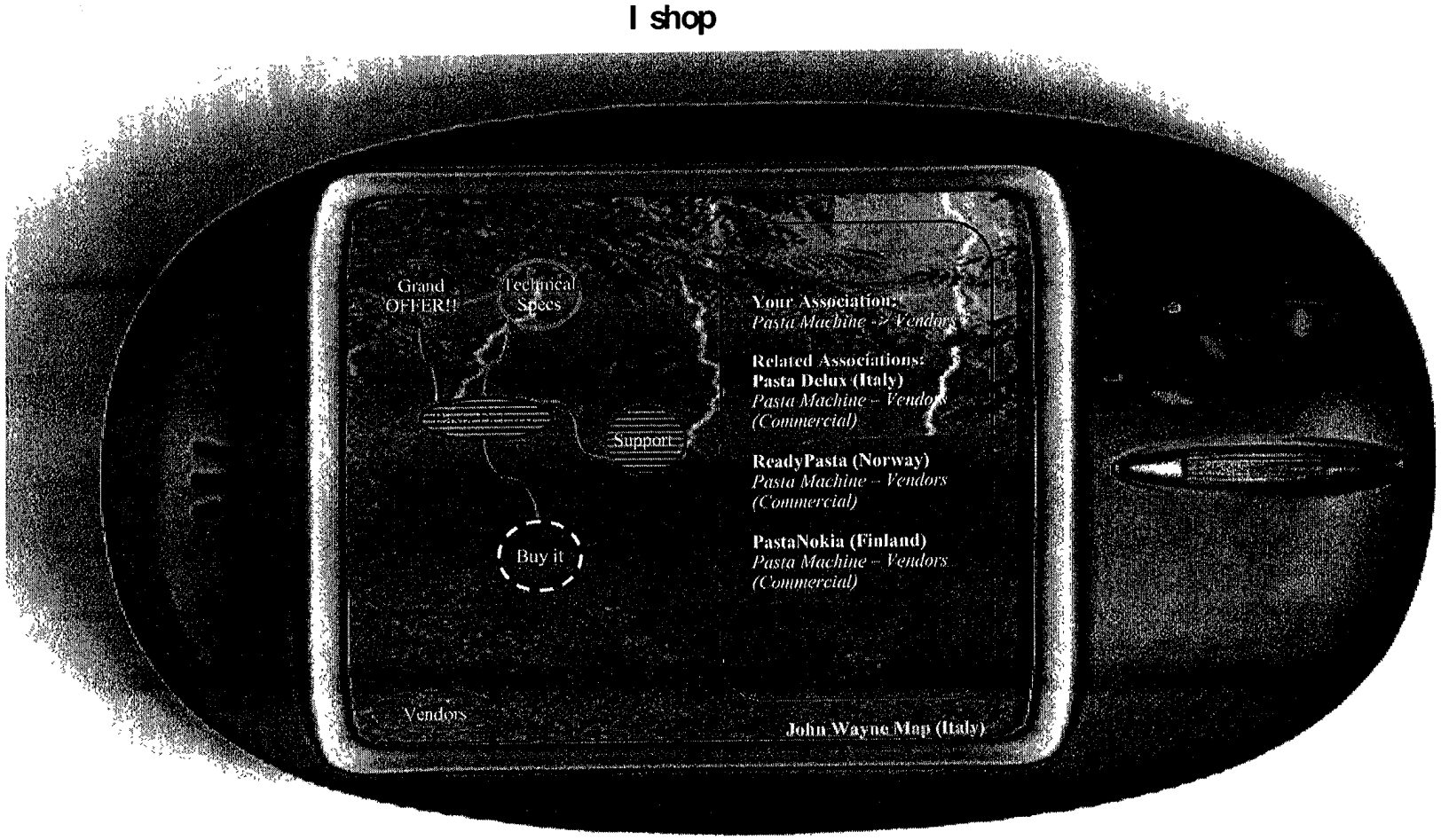

I shop
Grand OFFER!!
Technical Specs
Support
Buy it
Vendors
Your Association:
Pasta Machine -> Vendors
Related Associations:
Pasta Delux (Italy)
Pasta Machine – Vendors
(Commercial)
ReadyPasta (Norway)
Pasta Machine – Vendors
(Commercial)
PastaNokia (Finland)
Pasta Machine – Vendors
(Commercial)
John Wayne Map (Italy)

Figure 23L

20926E0" 0CT82001

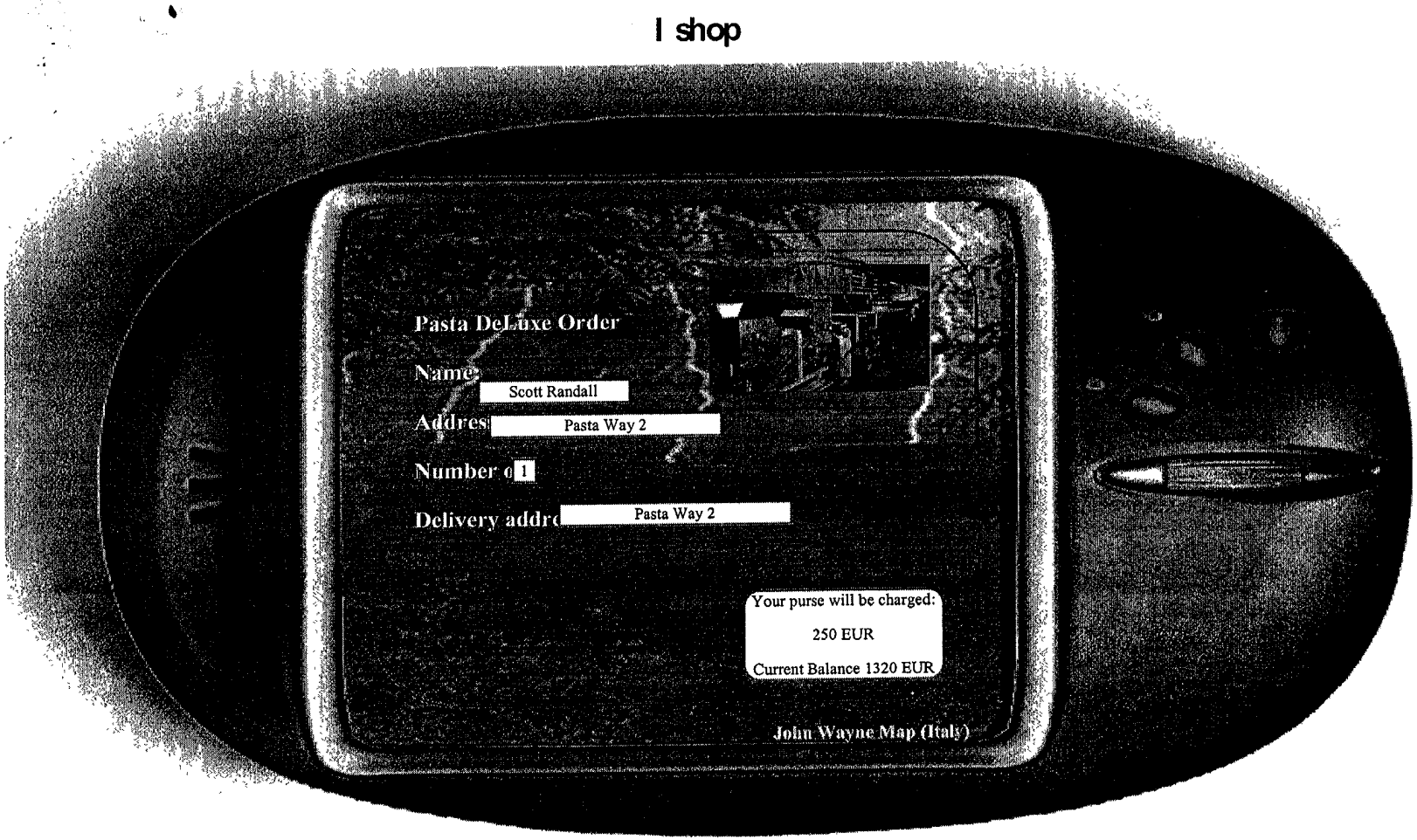


Figure 23M

I collaborate

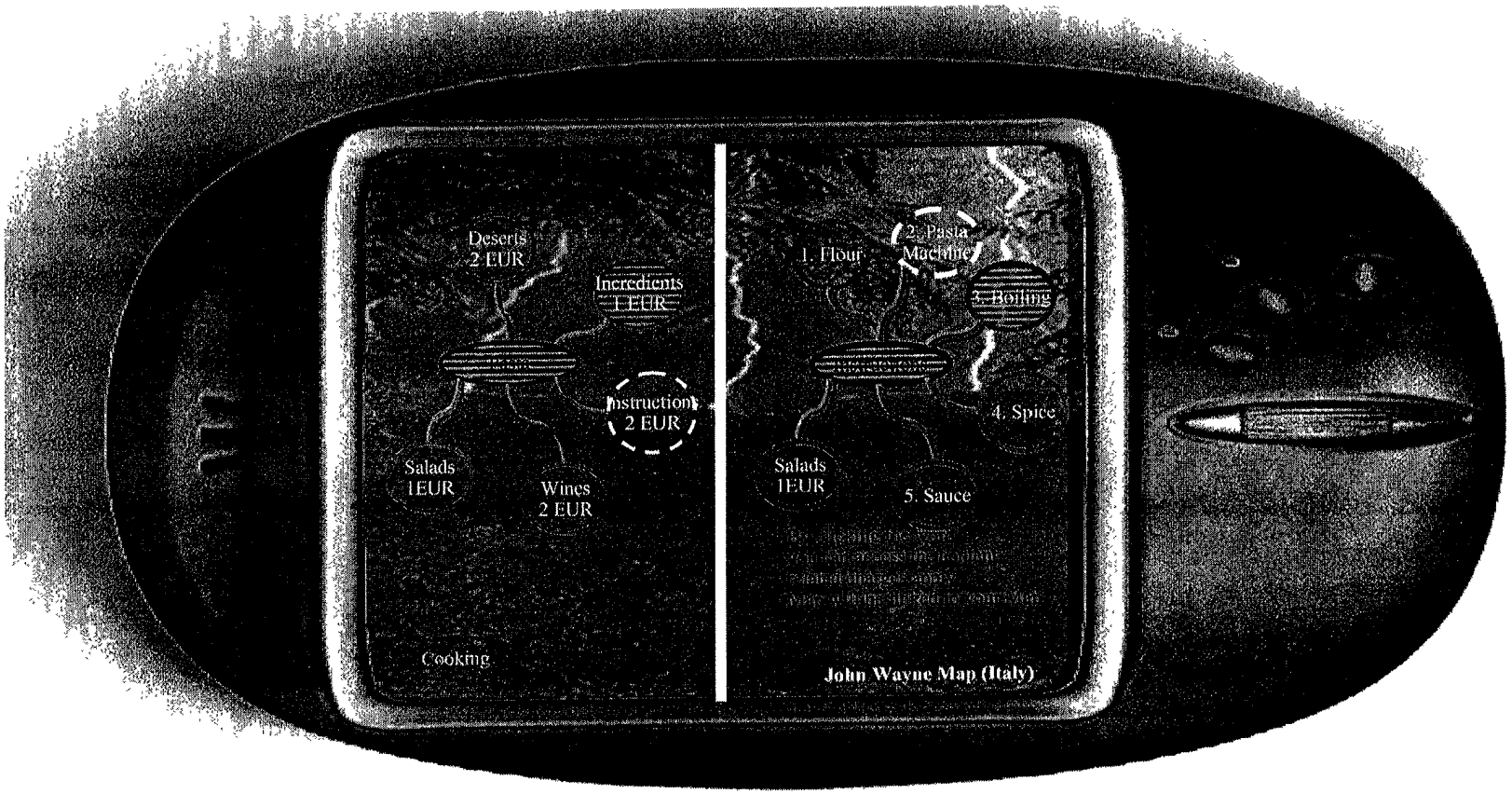
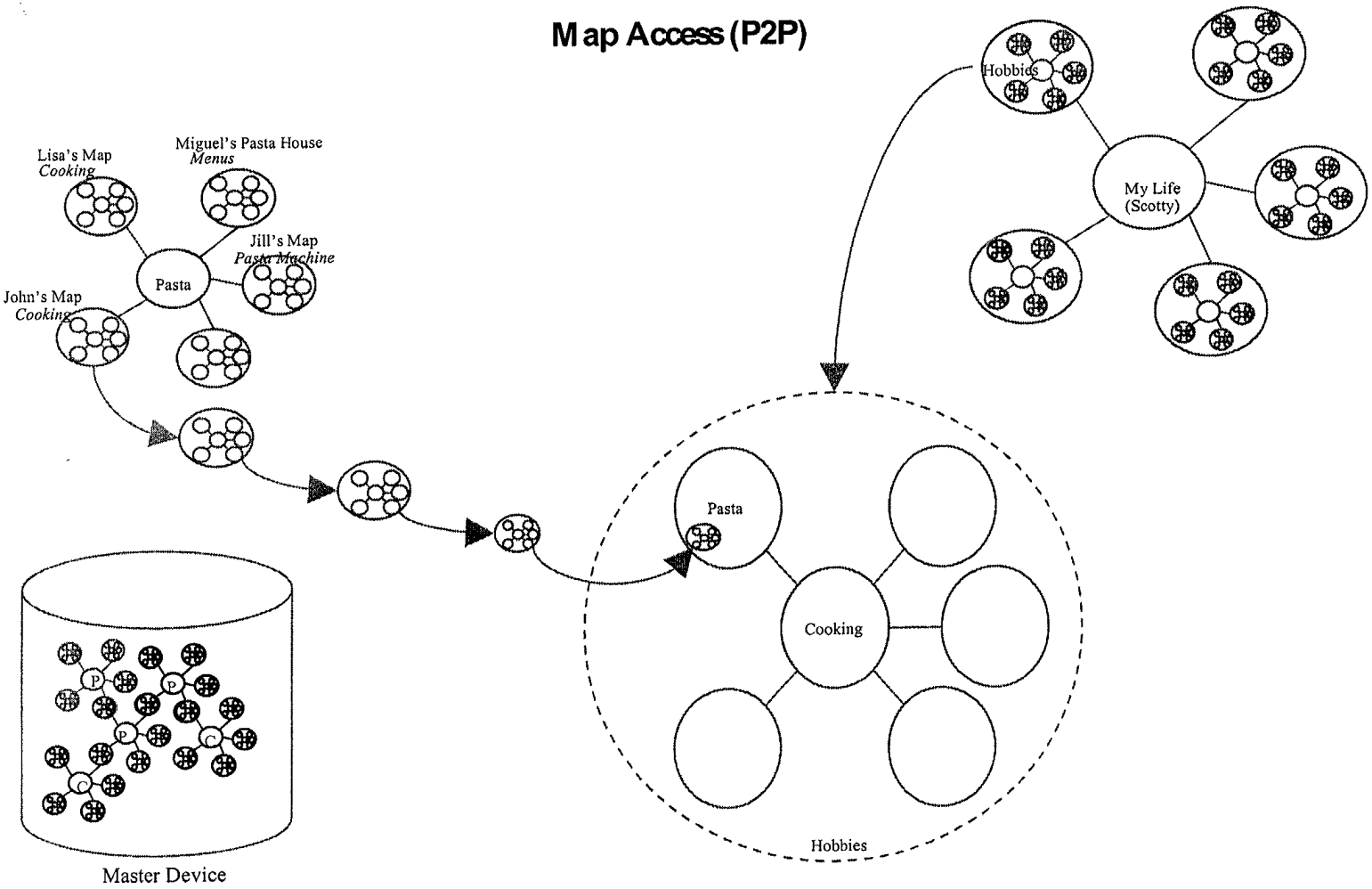


Figure 23N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Lisa's Map
Cooking
Miguel's Pasta House
Menus
Jill's Map
Pasta Machine
John's Map
Cooking
Pasta
Master Device
Hobbies
My Life
(Scotty)
Pasta
Cooking
Hobbies

Figure 23O

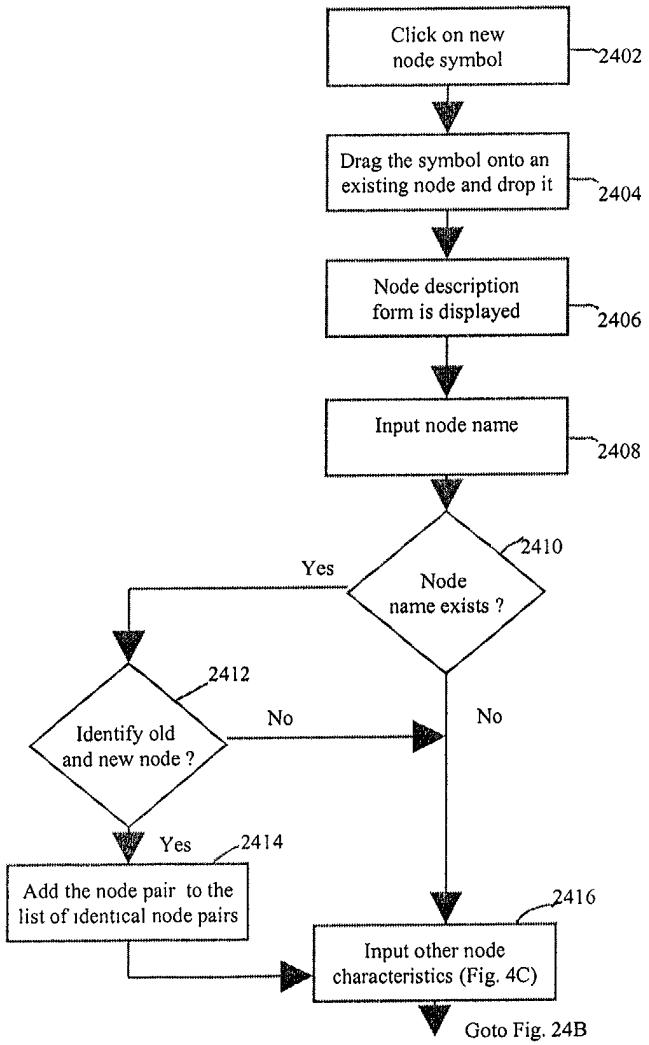

Figure 24A (Creating a new node & a new edge)

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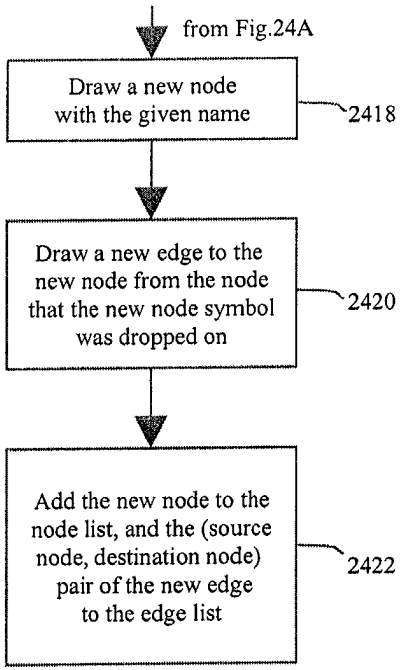
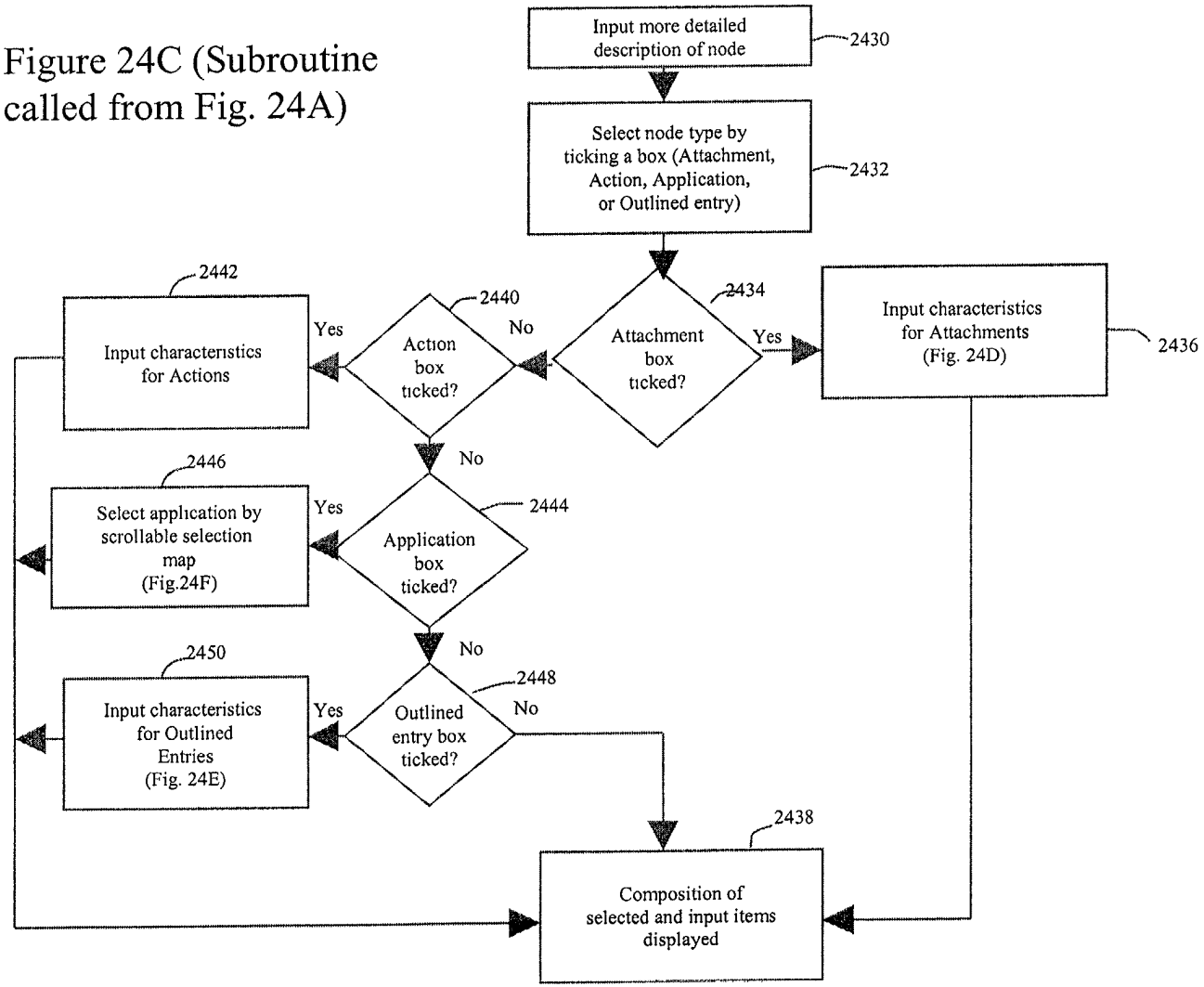


Figure 24B (Creating a new node & a new edge, cont'd)

Figure 24C (Subroutine called from Fig. 24A)



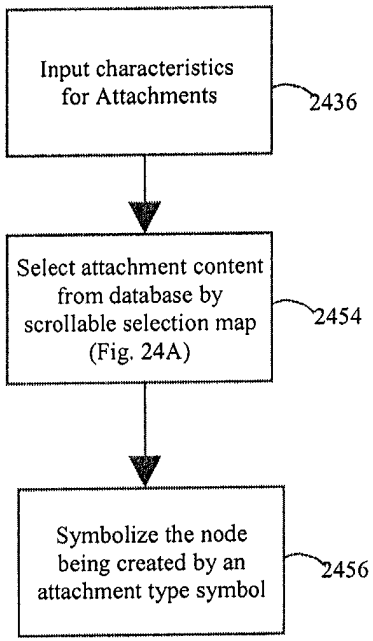


Figure 24D (Subroutine called from Fig. 24C)

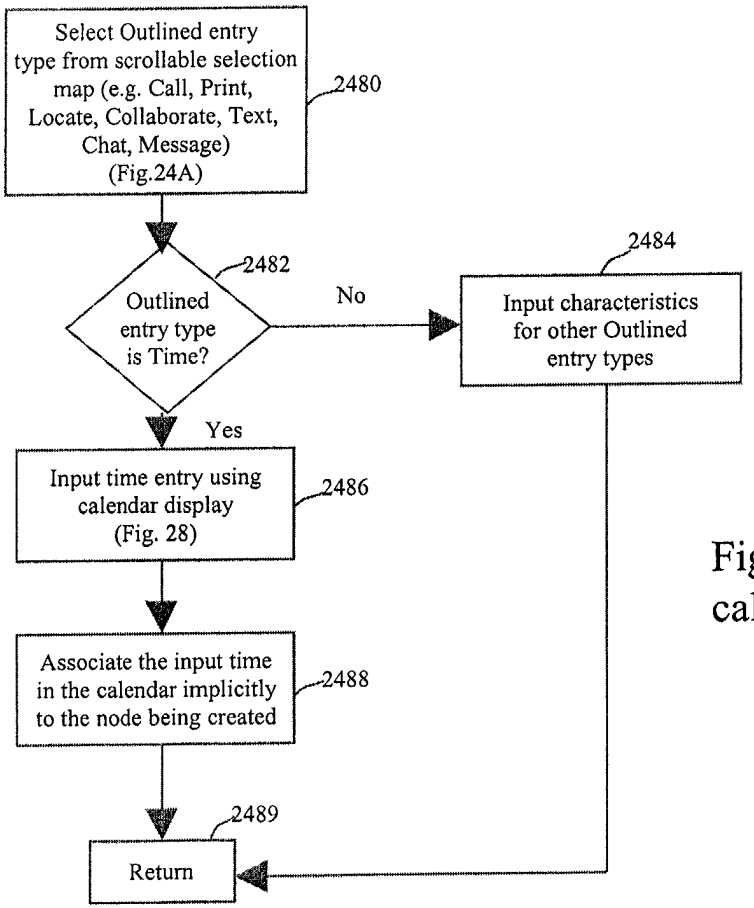


Figure 24E (Subroutine called from Fig. 24C)

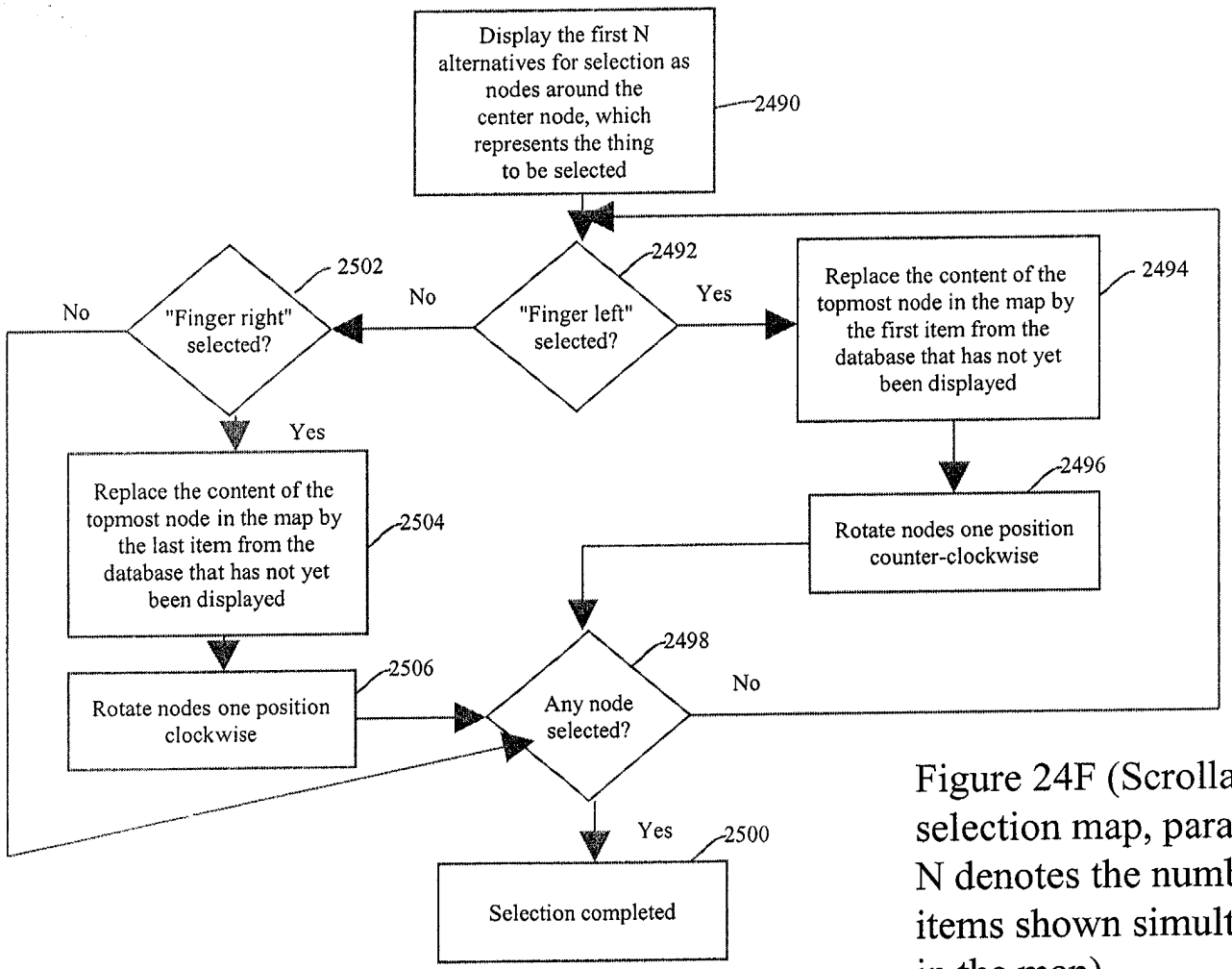


Figure 24F (Scrollable selection map, parameter N denotes the number of items shown simultaneously in the map)

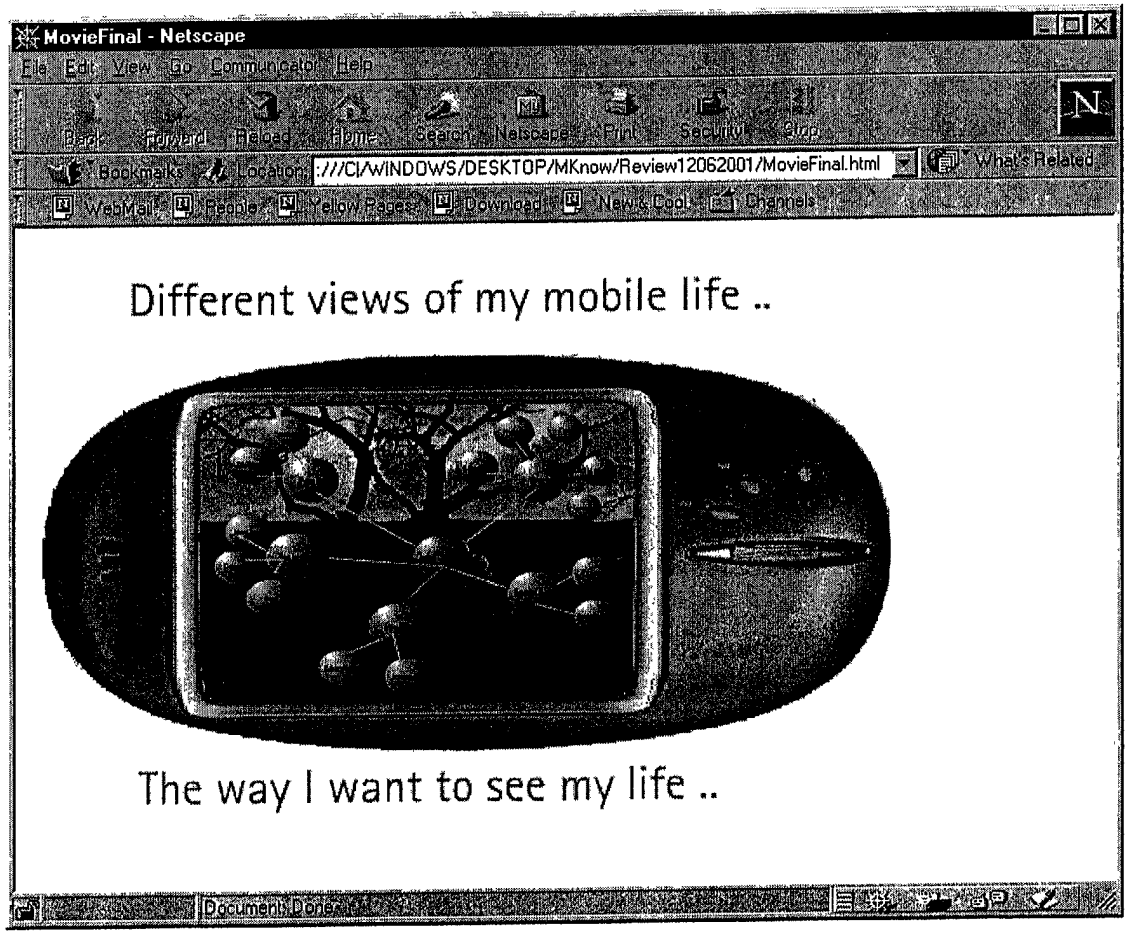

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Figure 25A

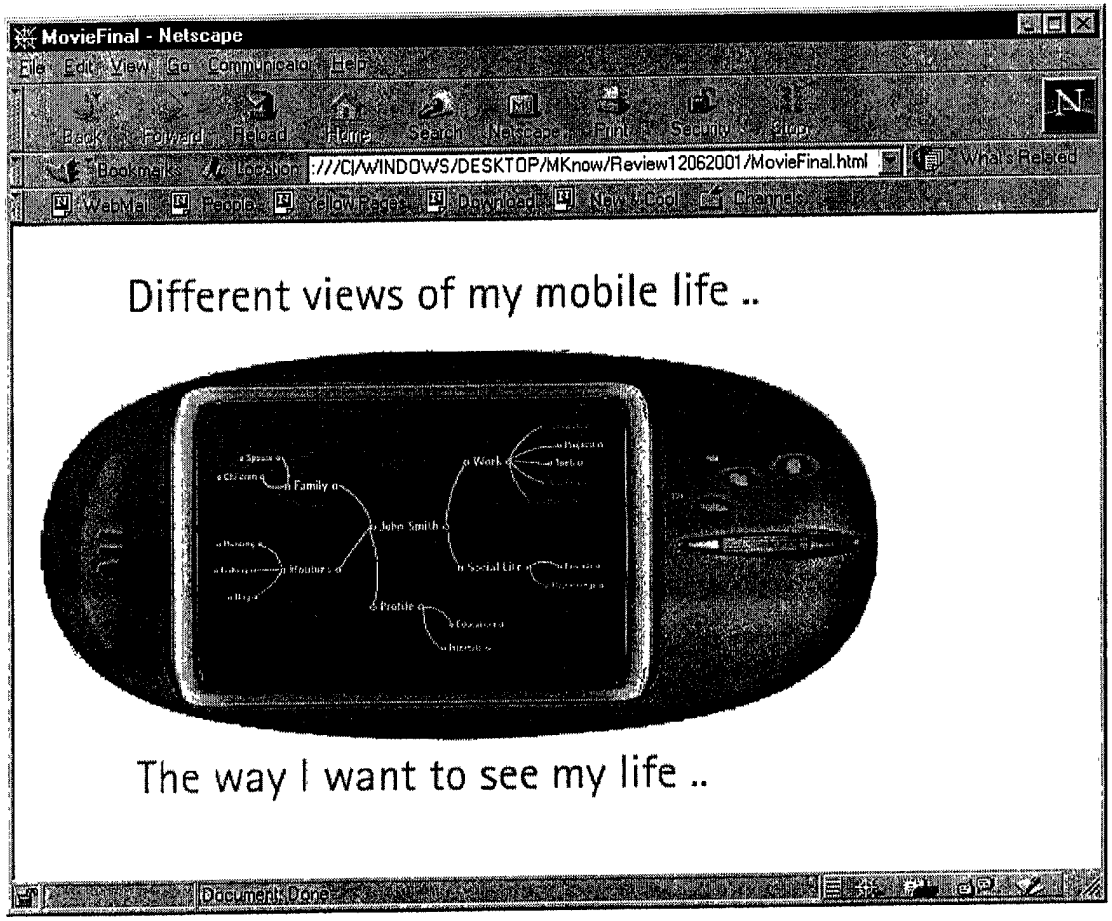
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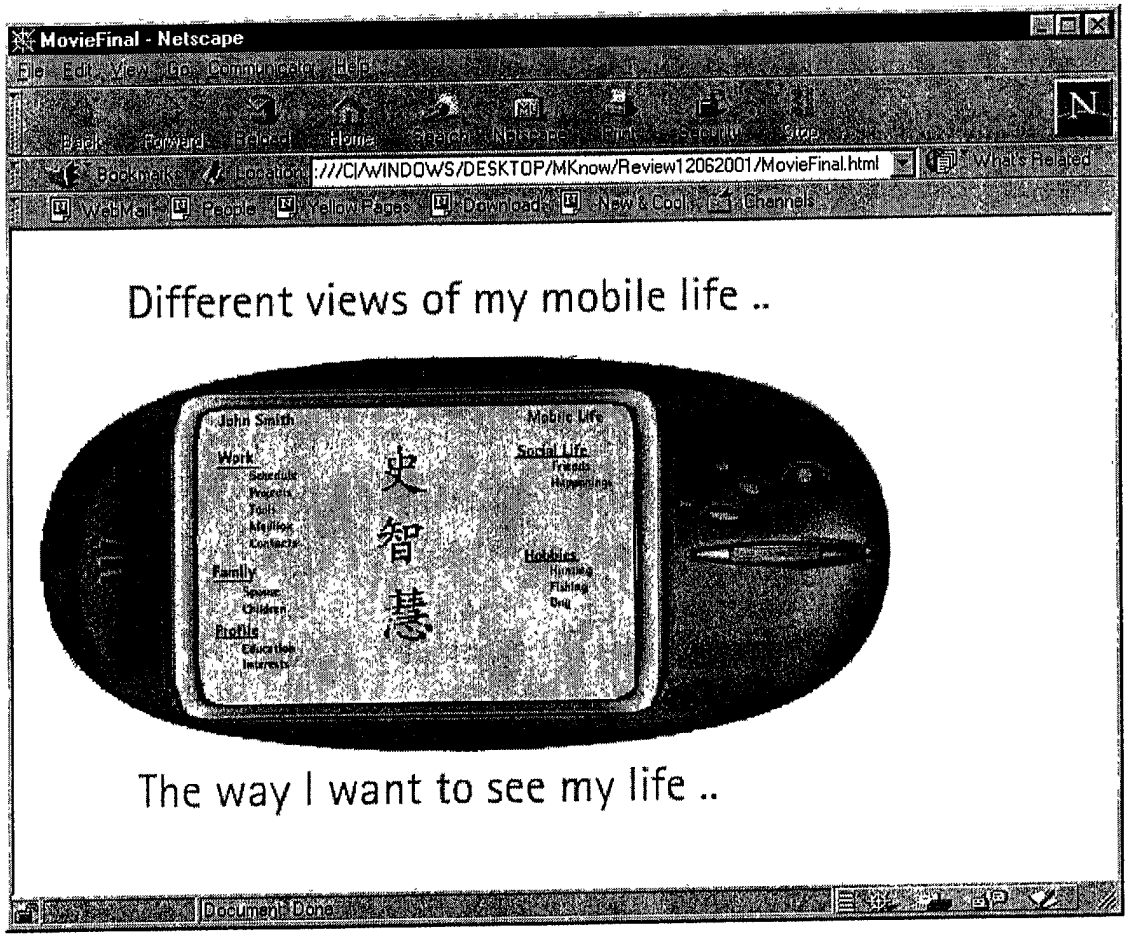
Figure 25B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Hobbies
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Figure 25C

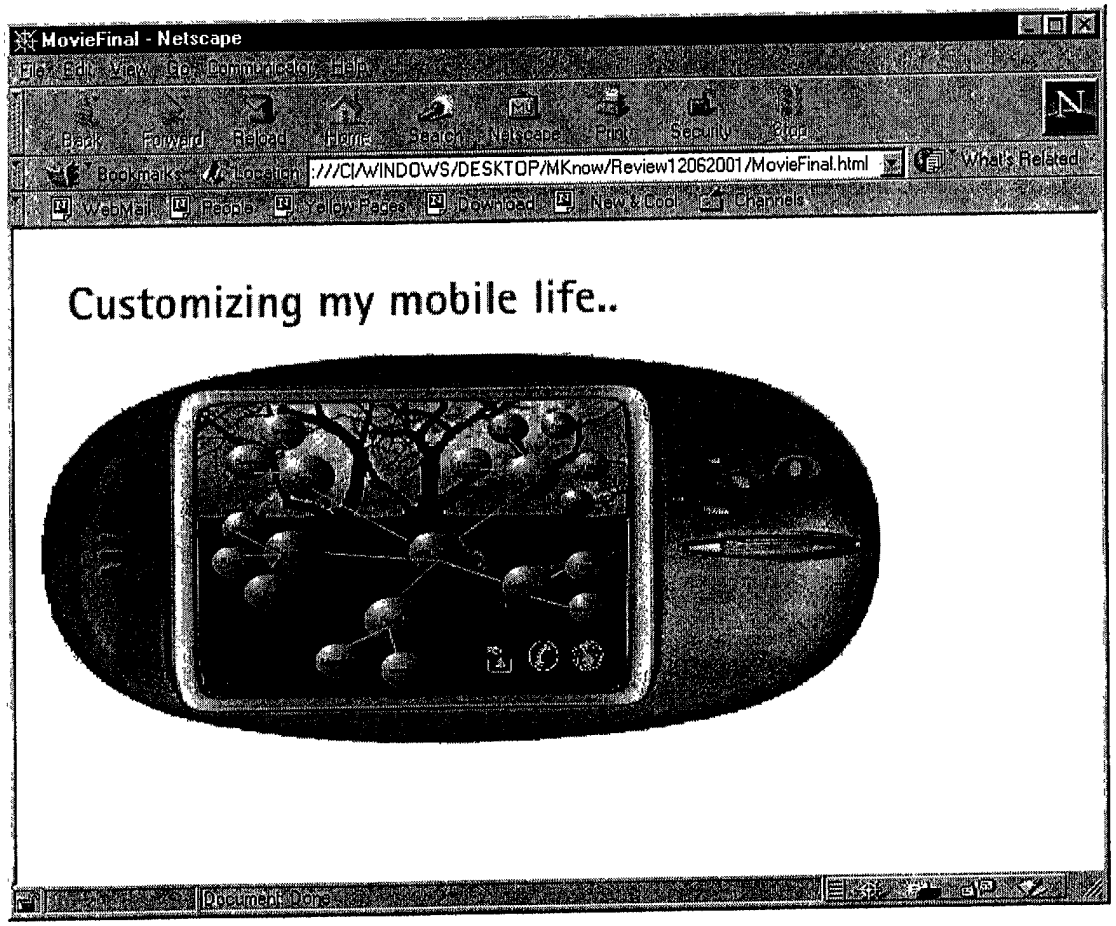
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Figure 25D

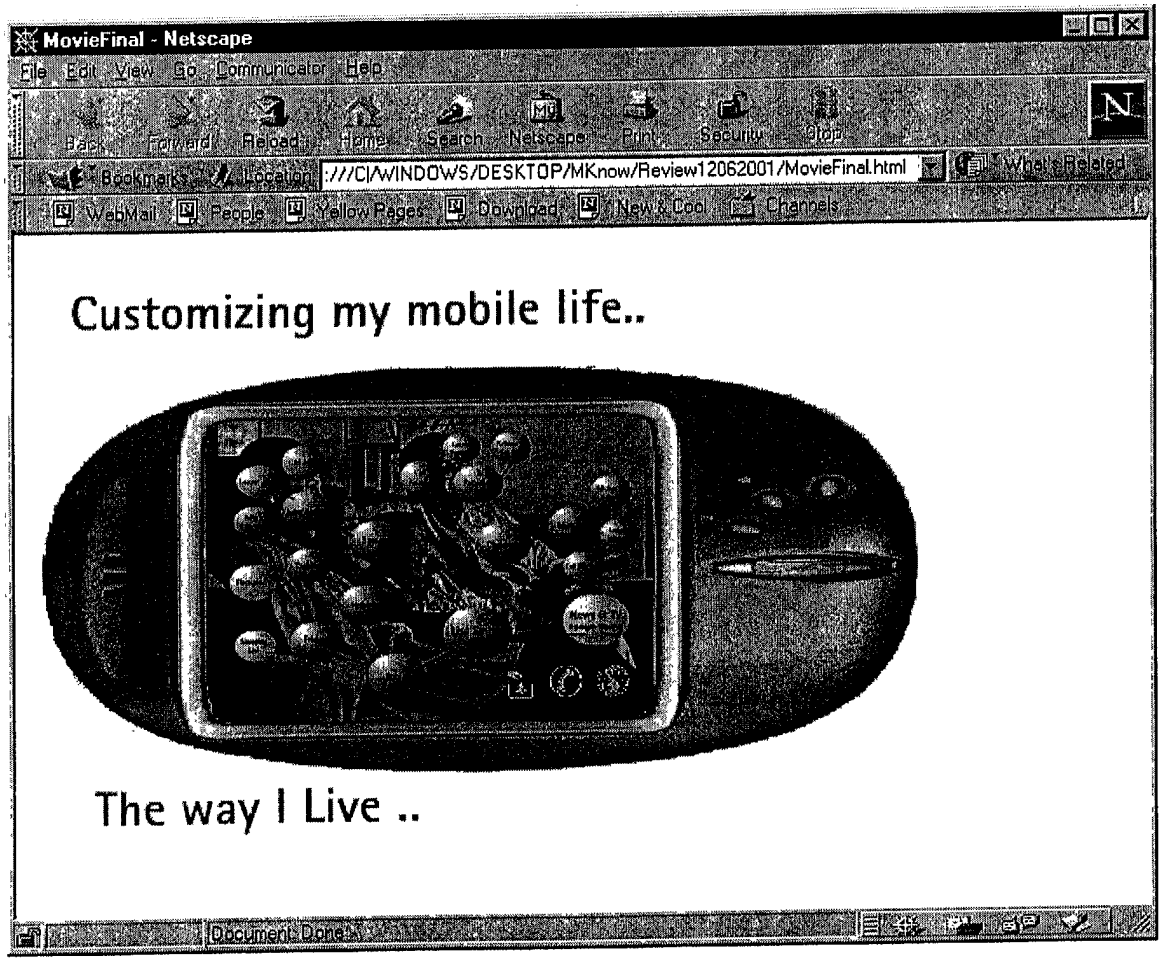
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Figure 25E

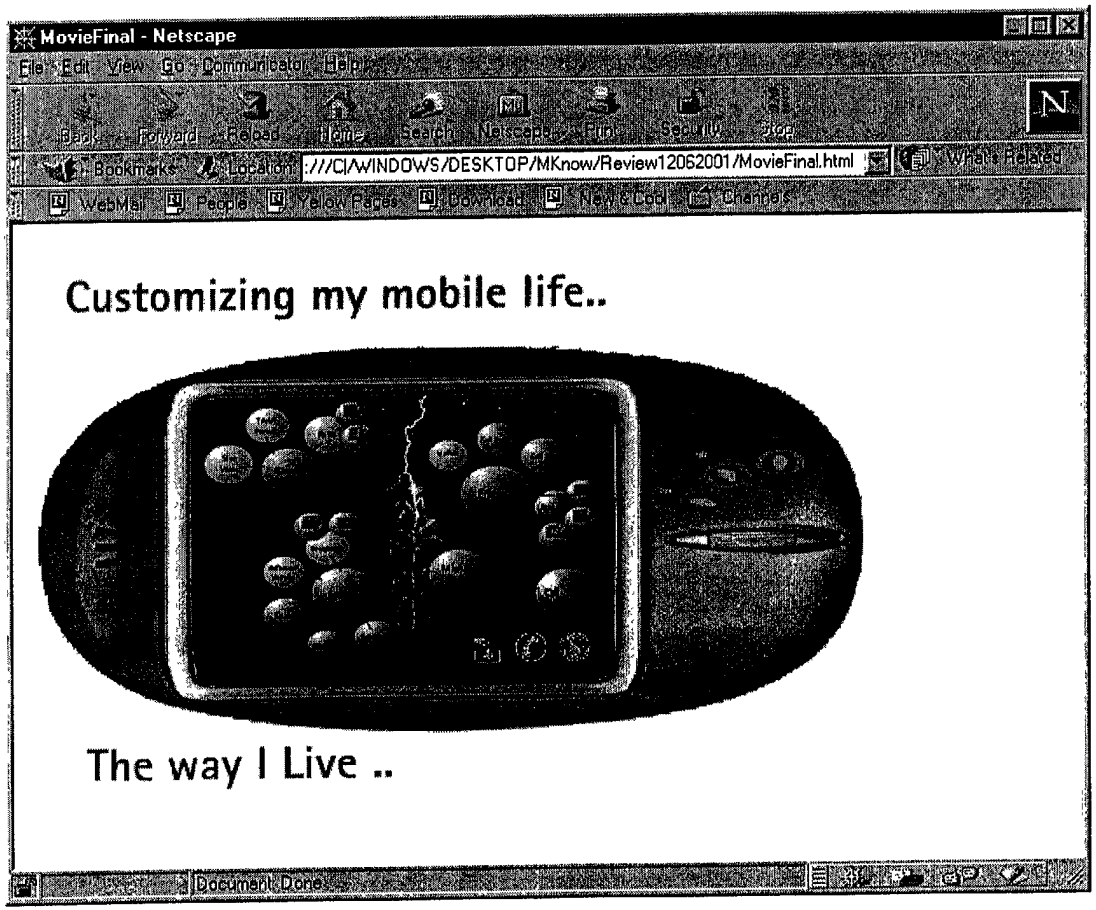
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Figure 25F

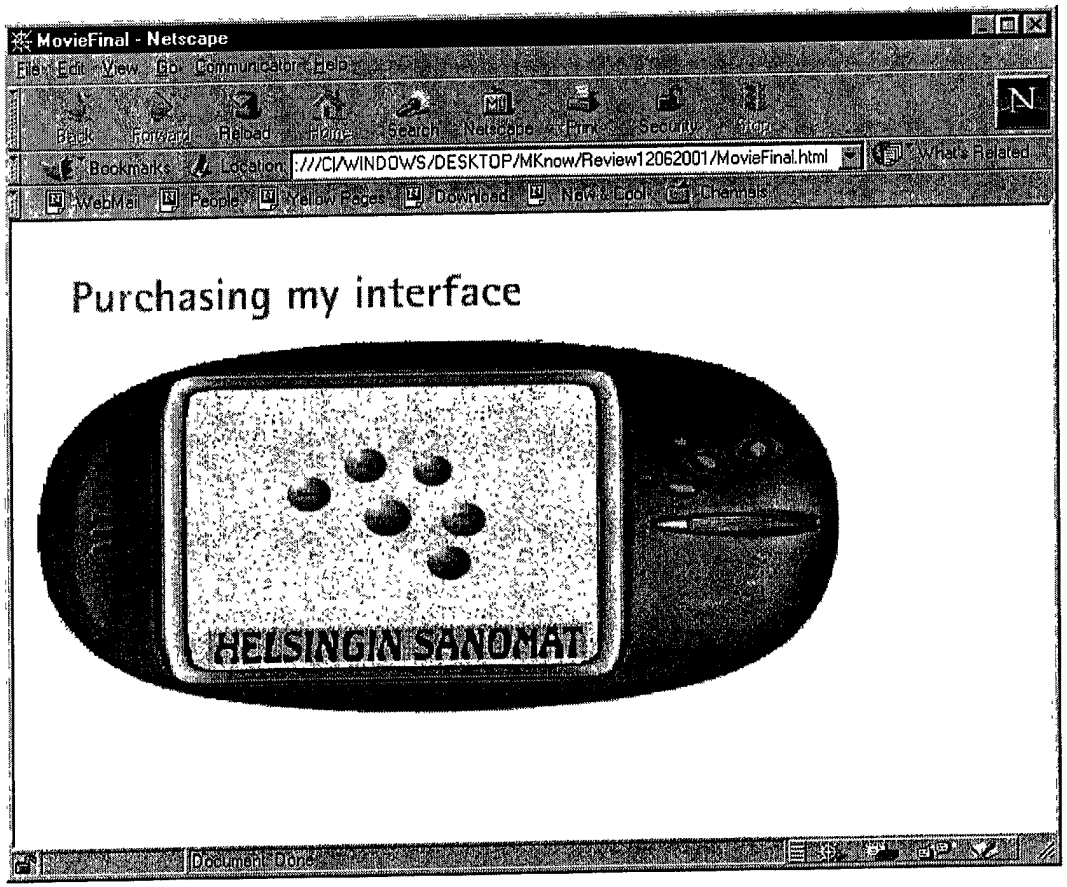
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Figure 25G

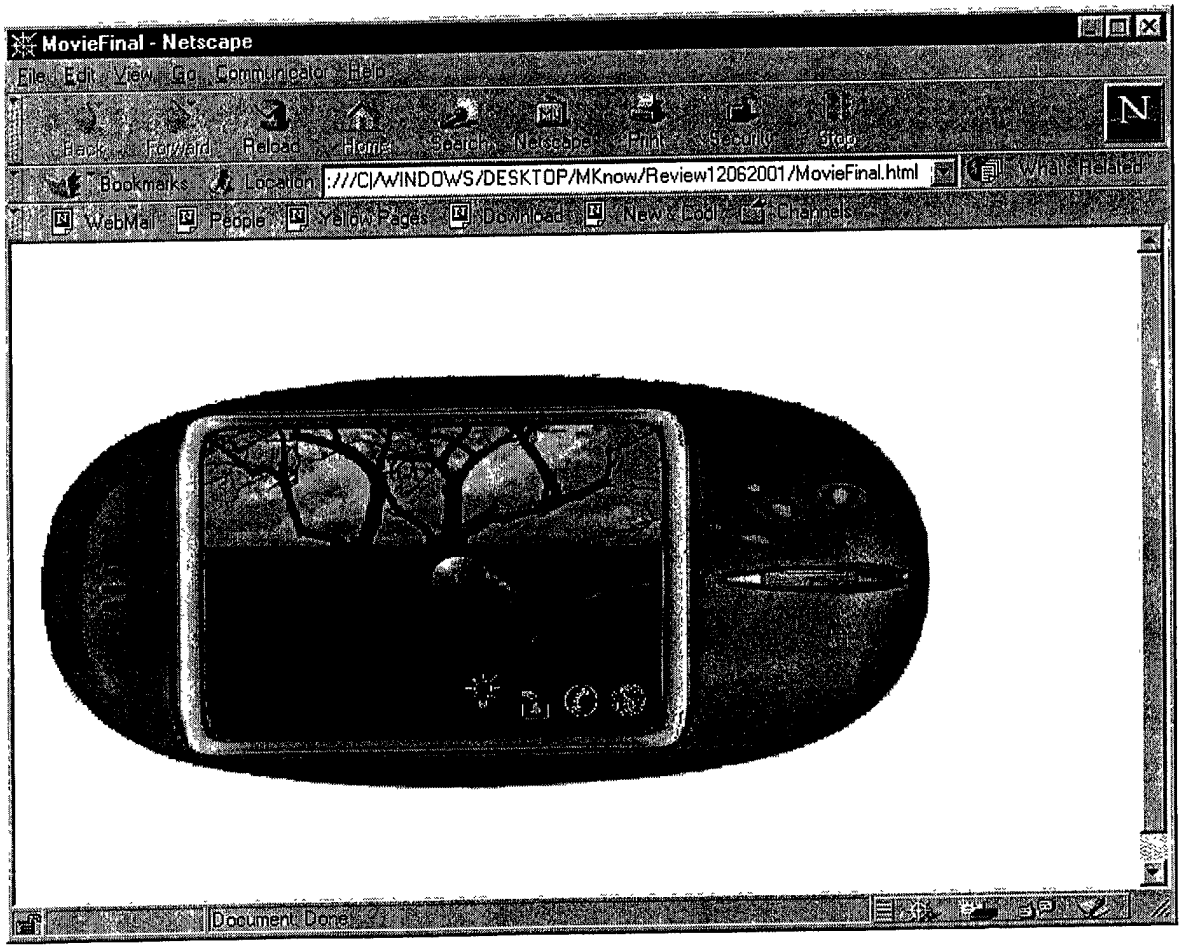
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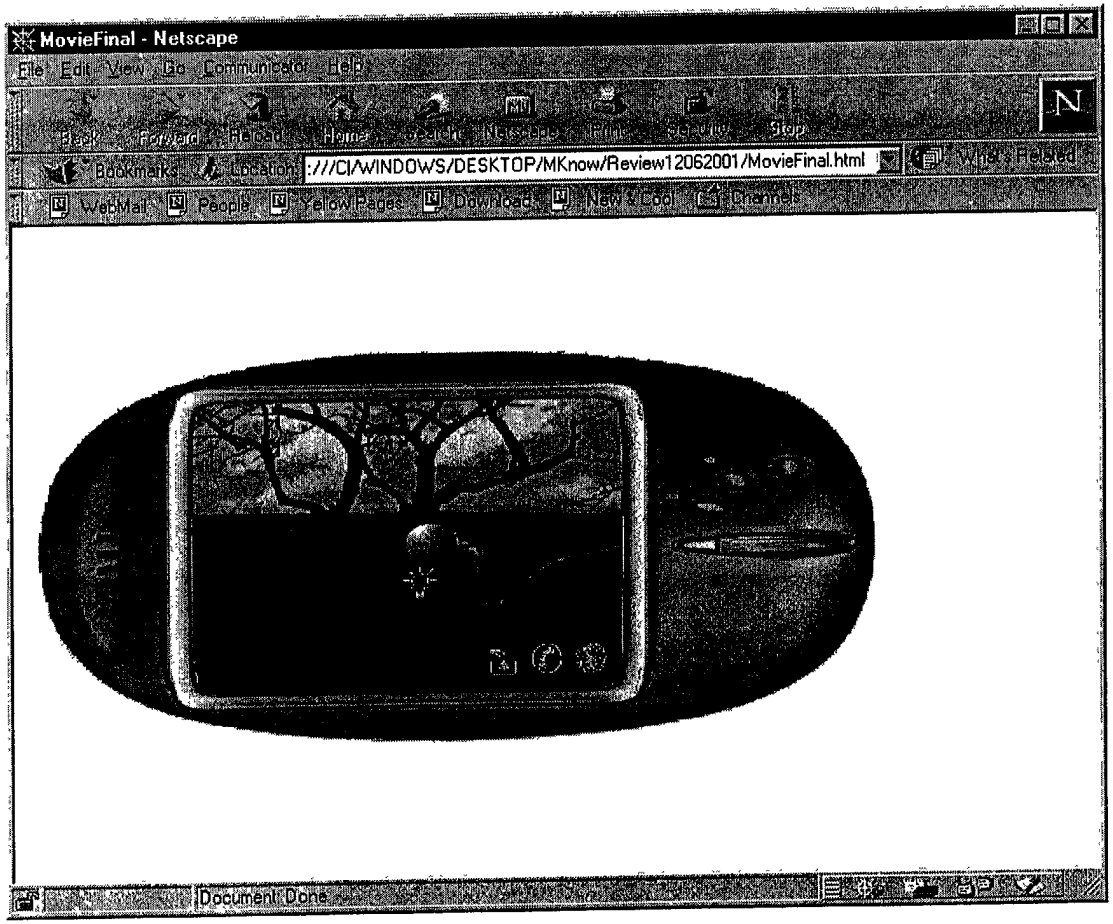
Figure 26A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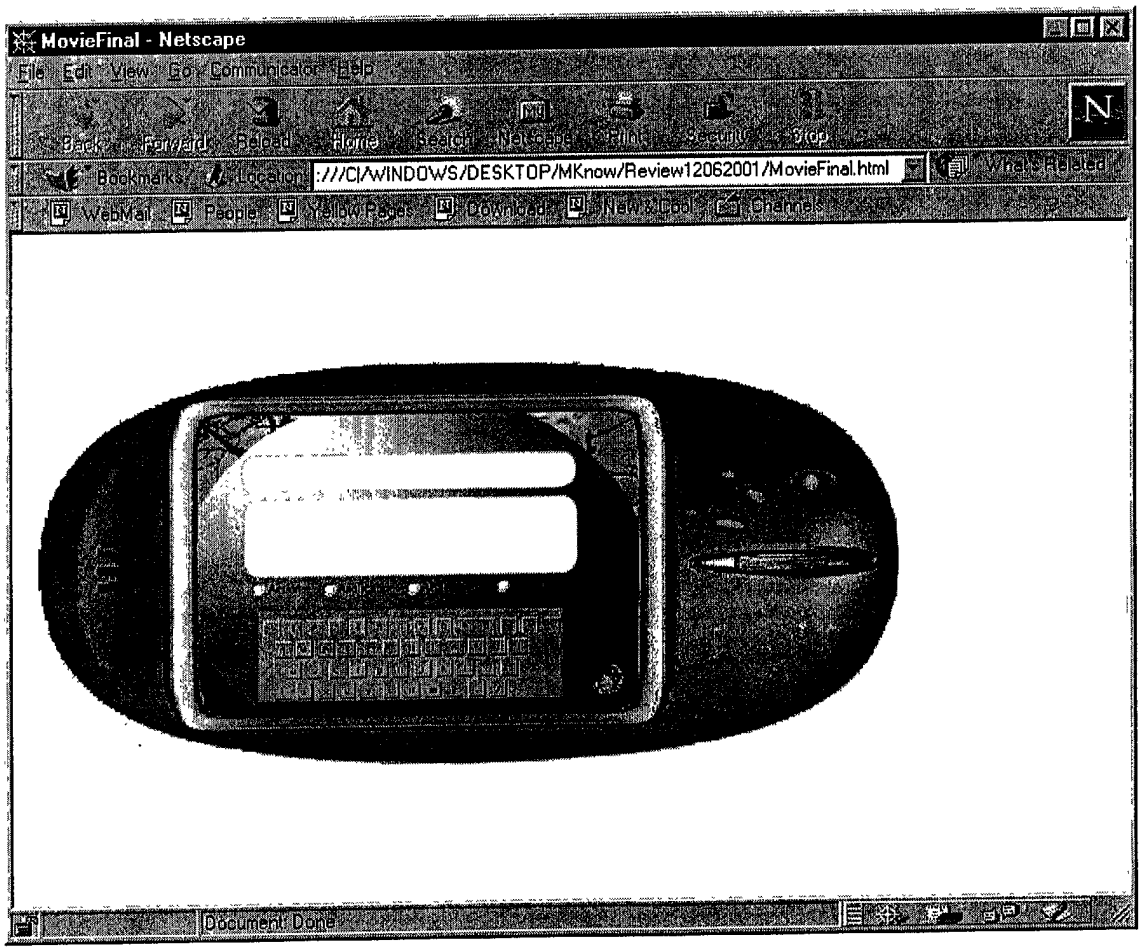
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Figure 26C

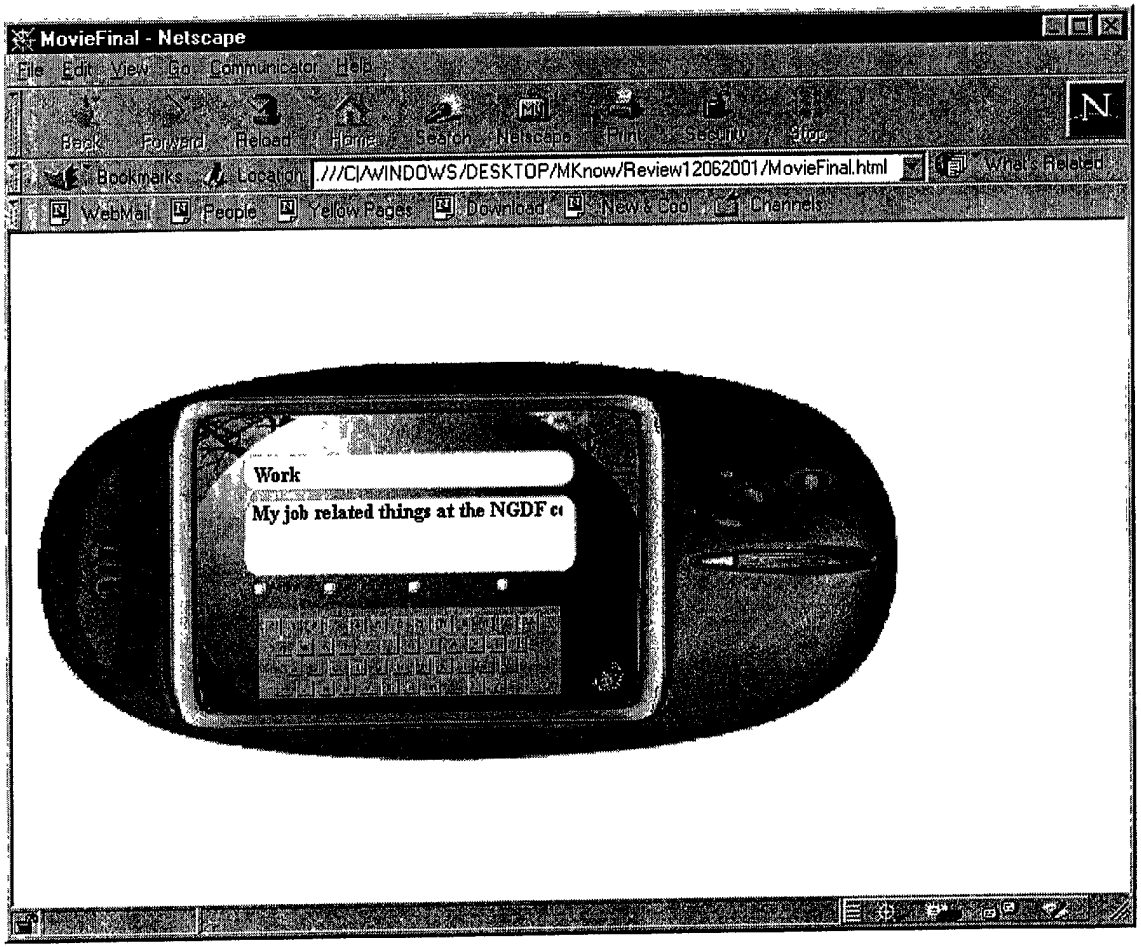
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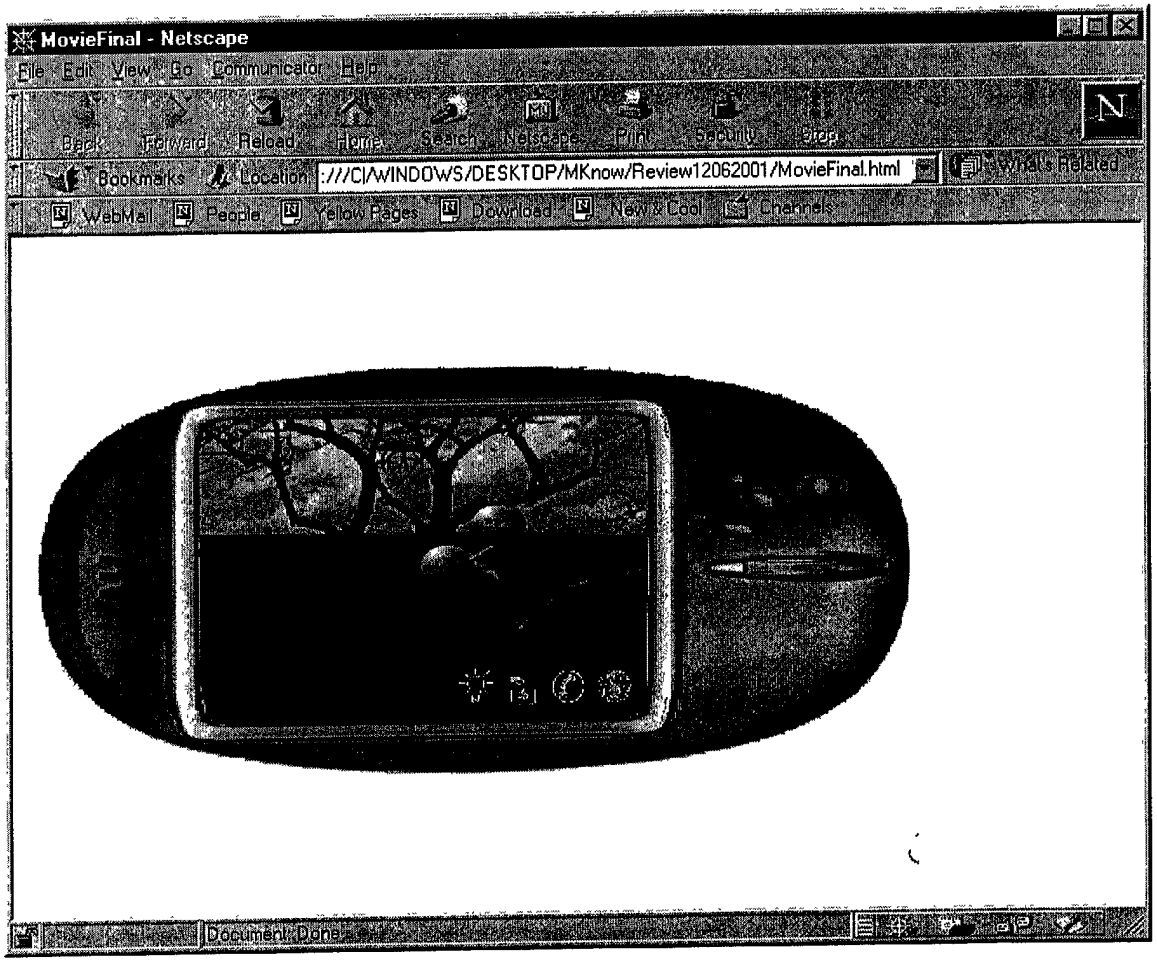
Figure 26D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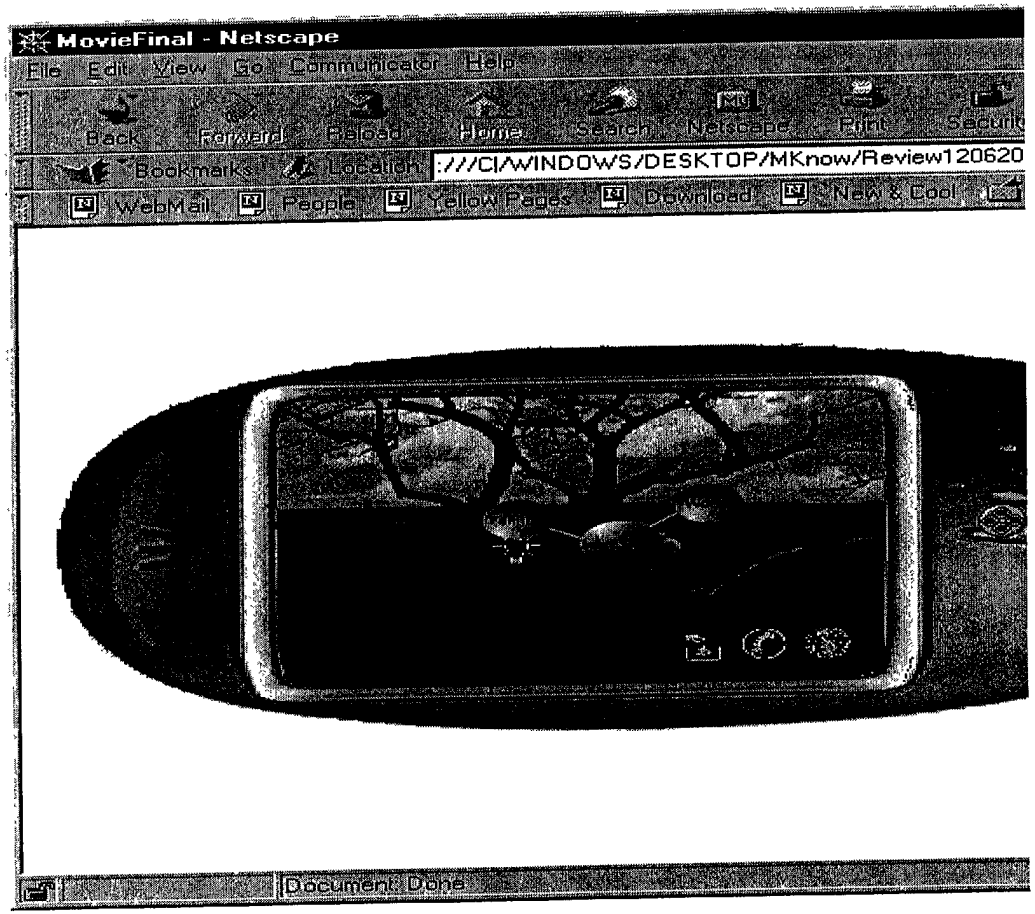
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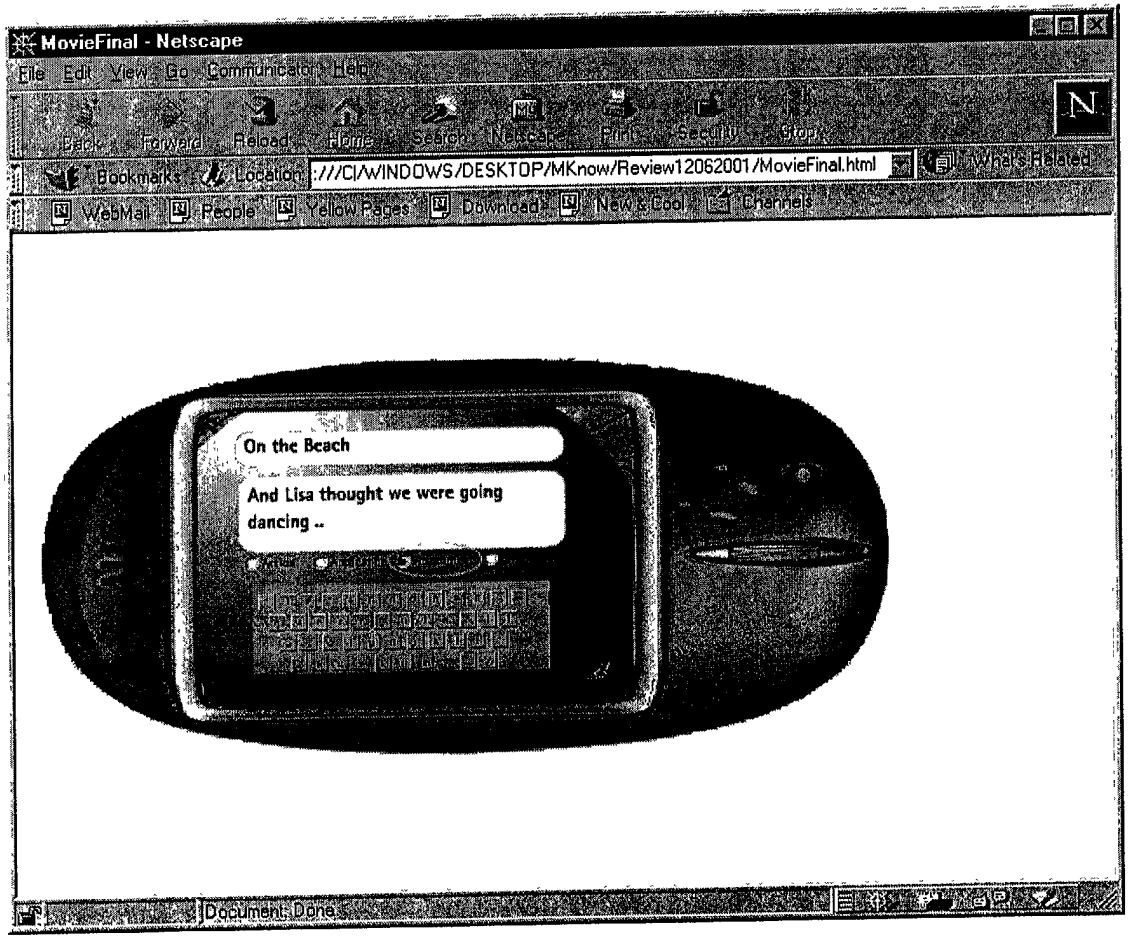
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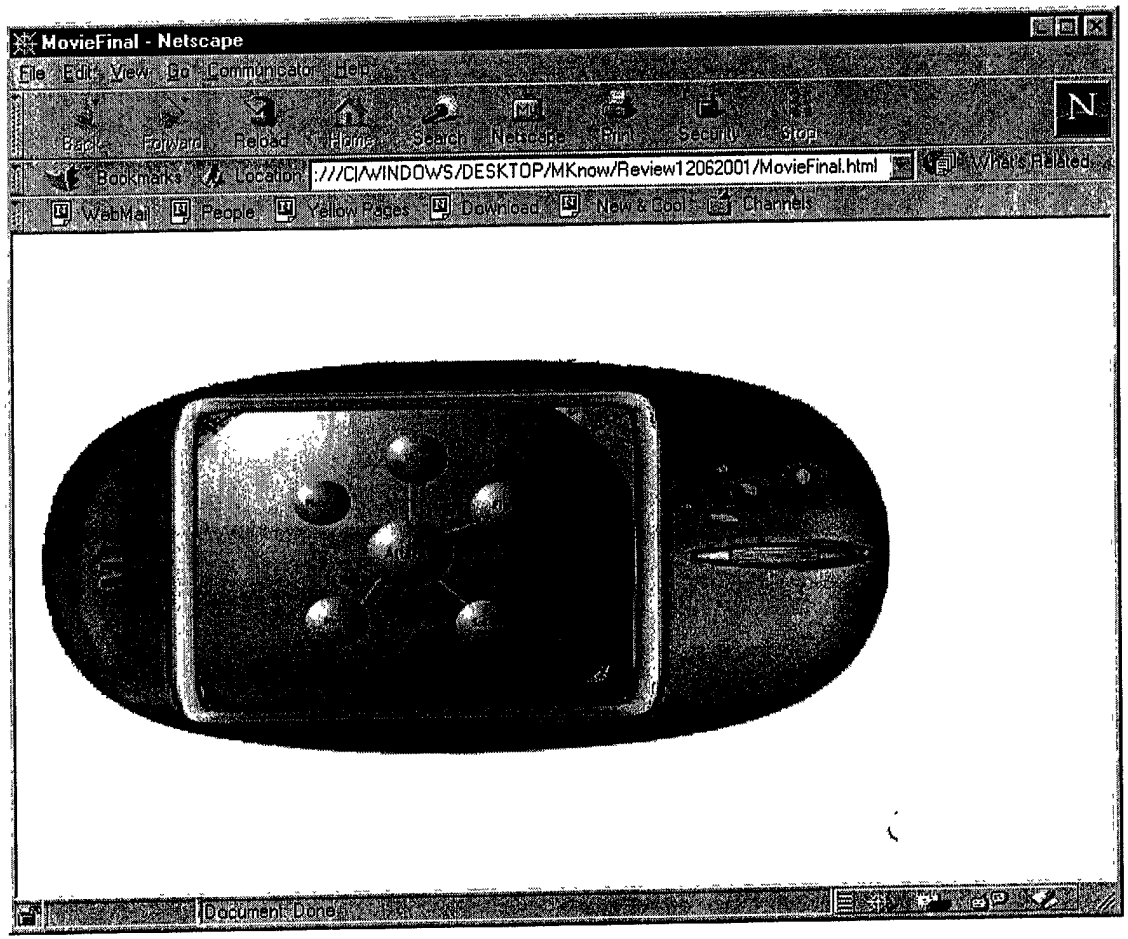
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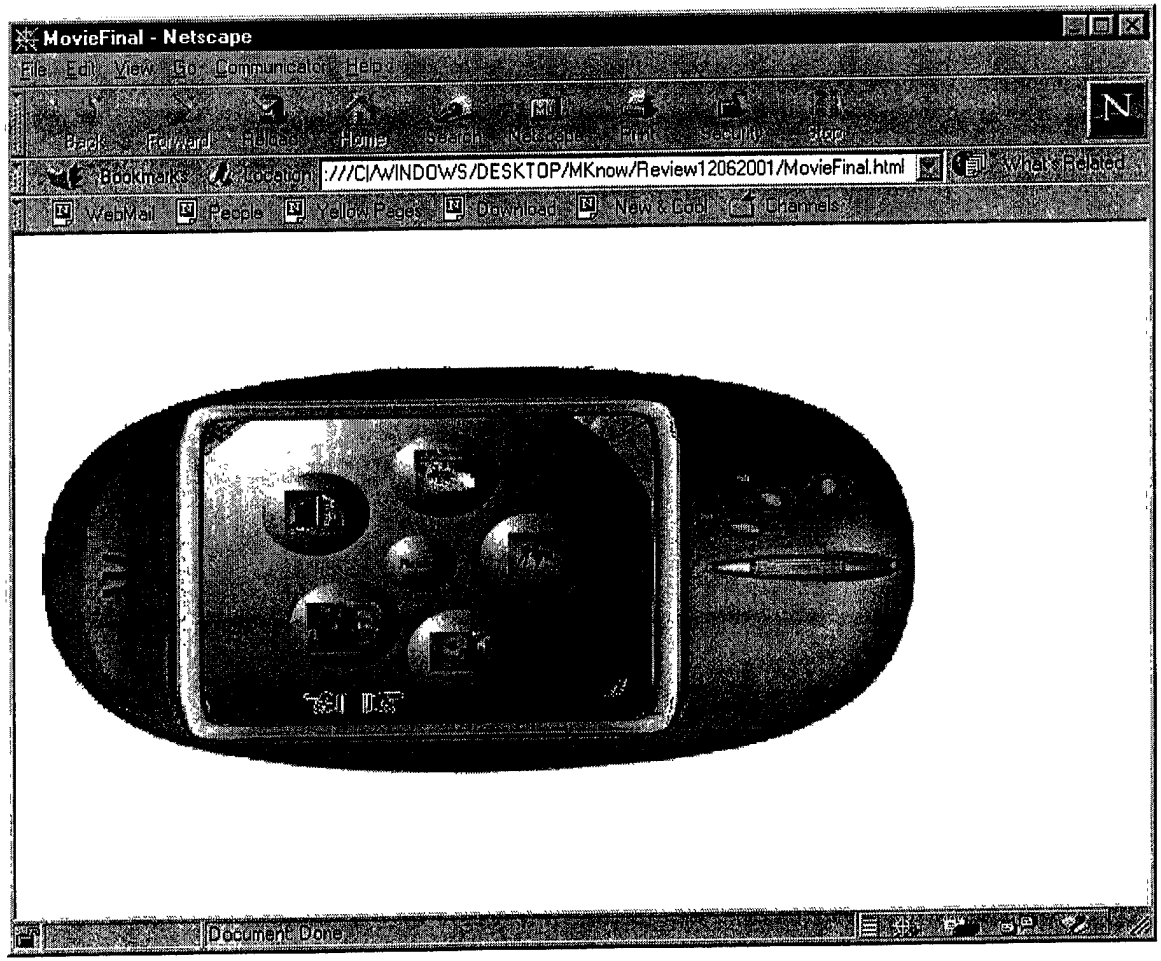
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Figure 26I

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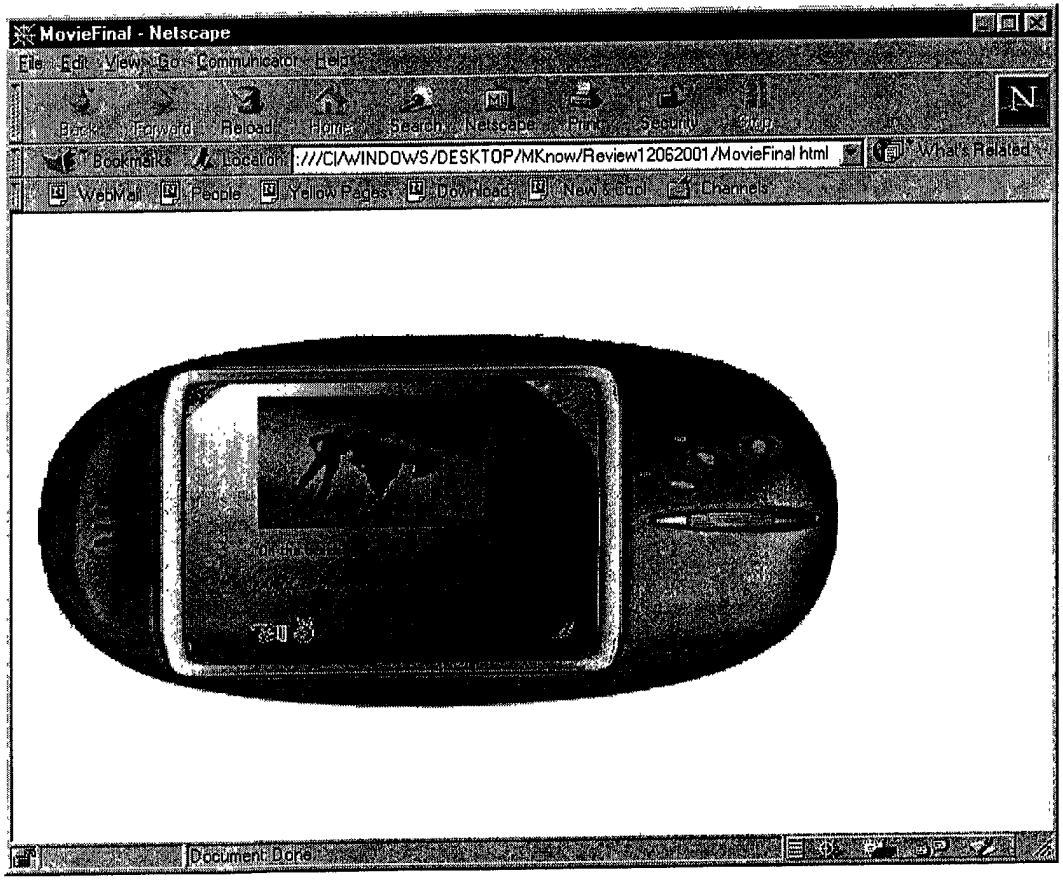

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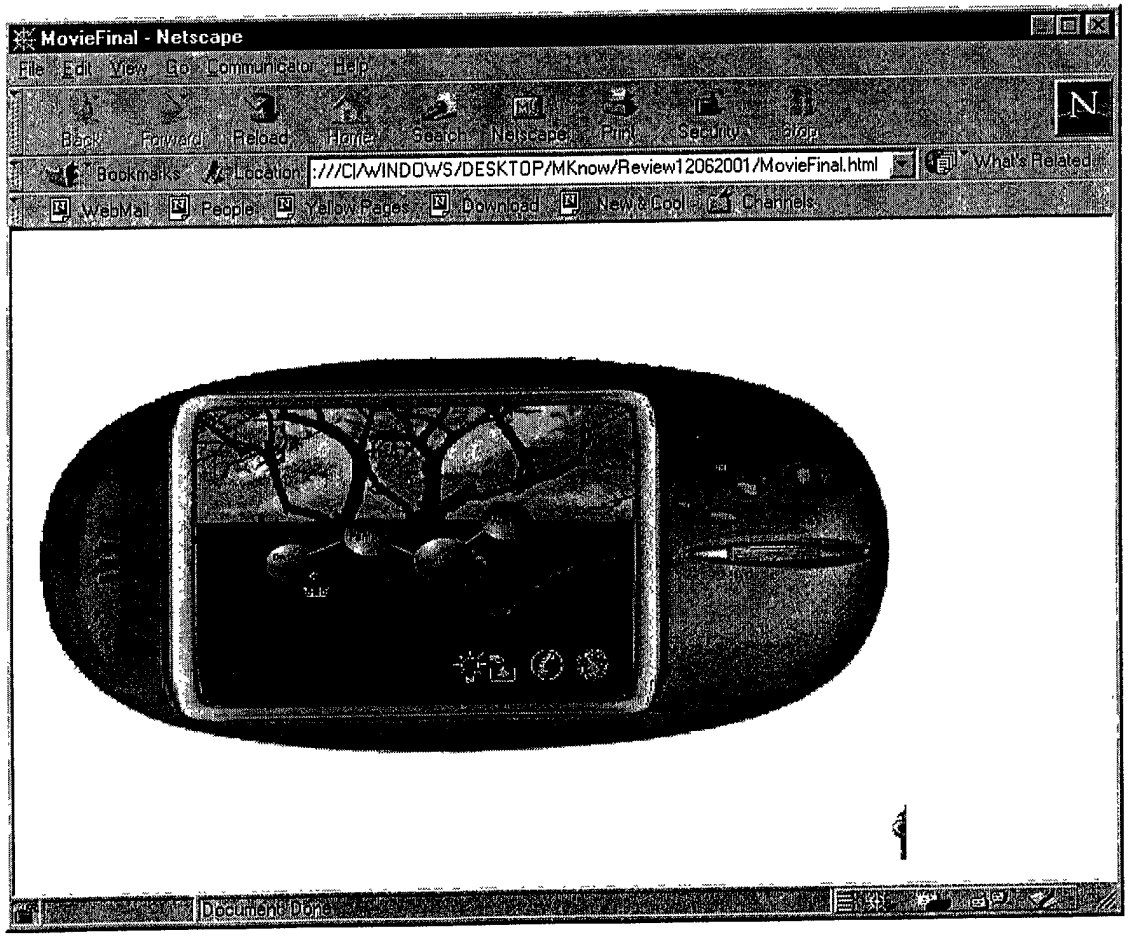

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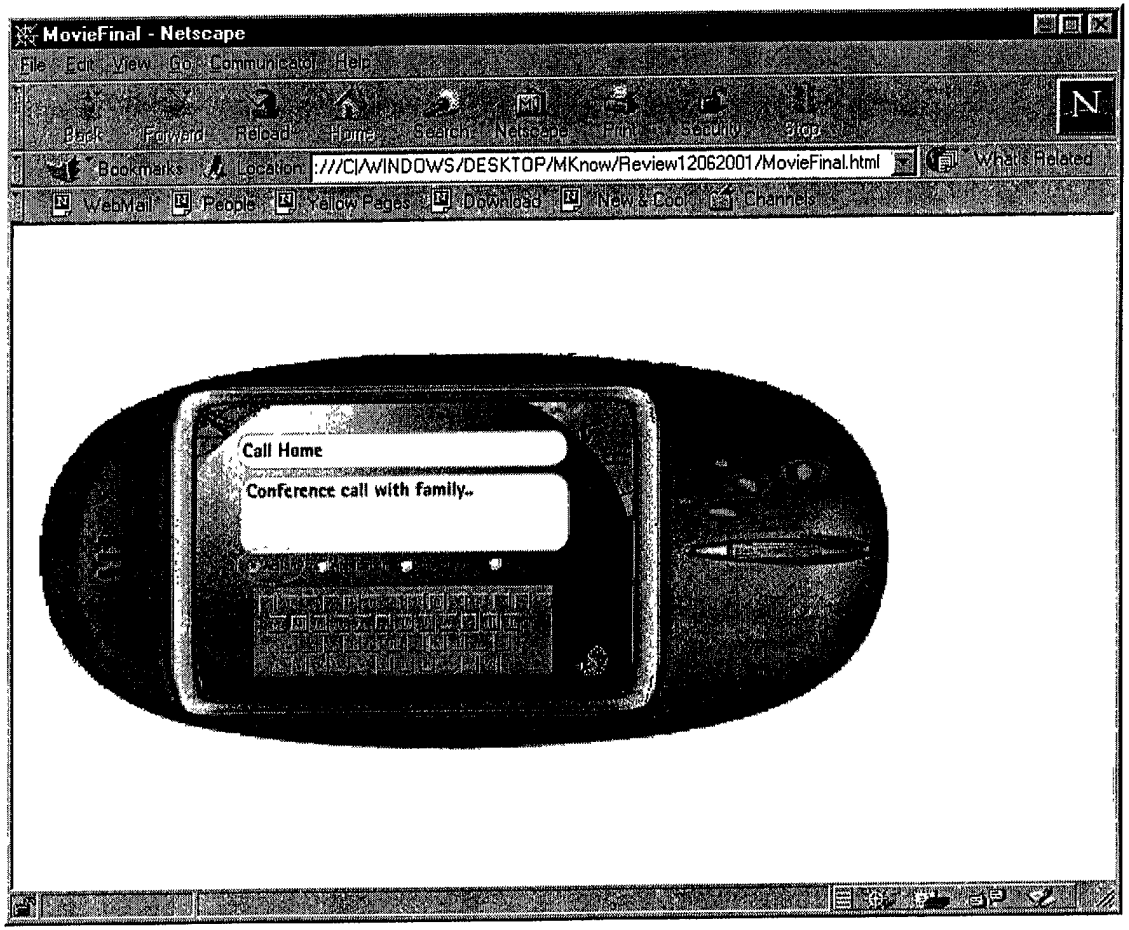
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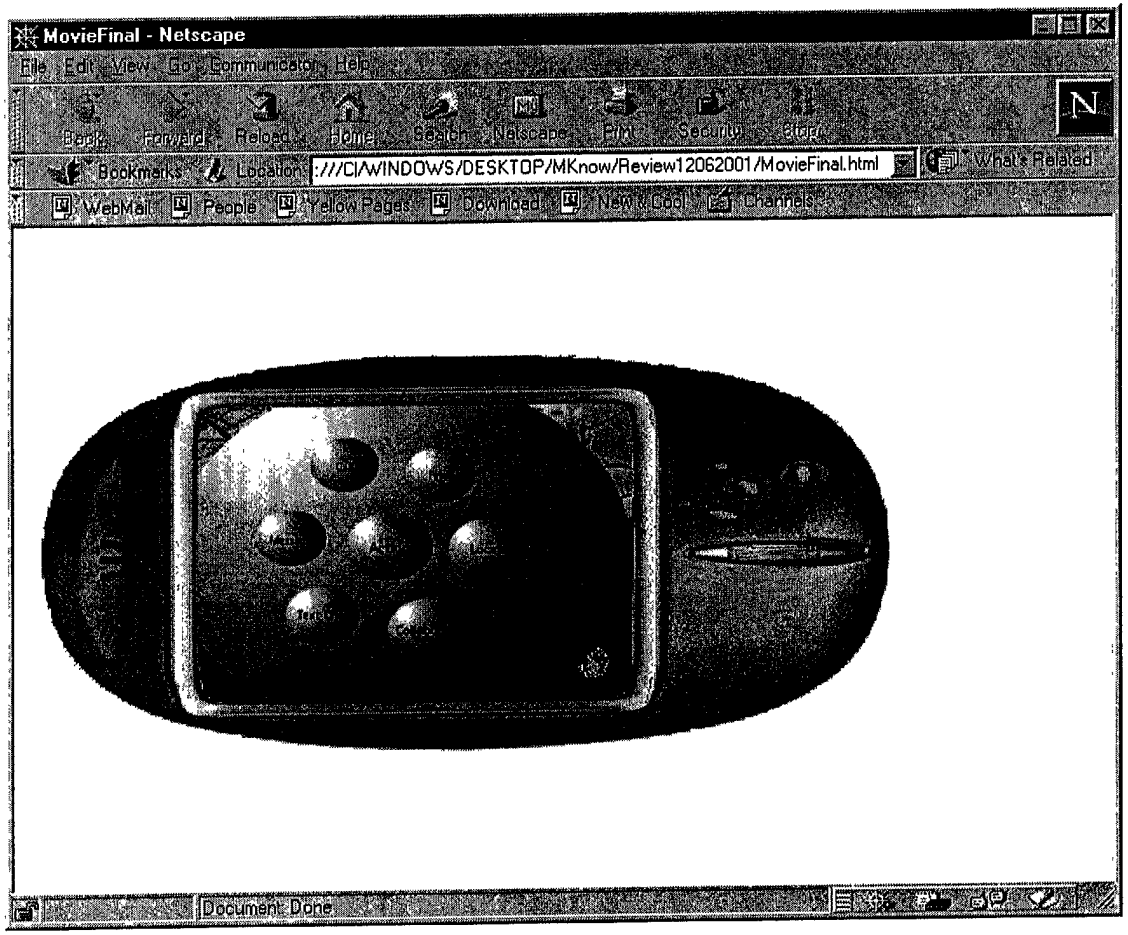
Figure 26L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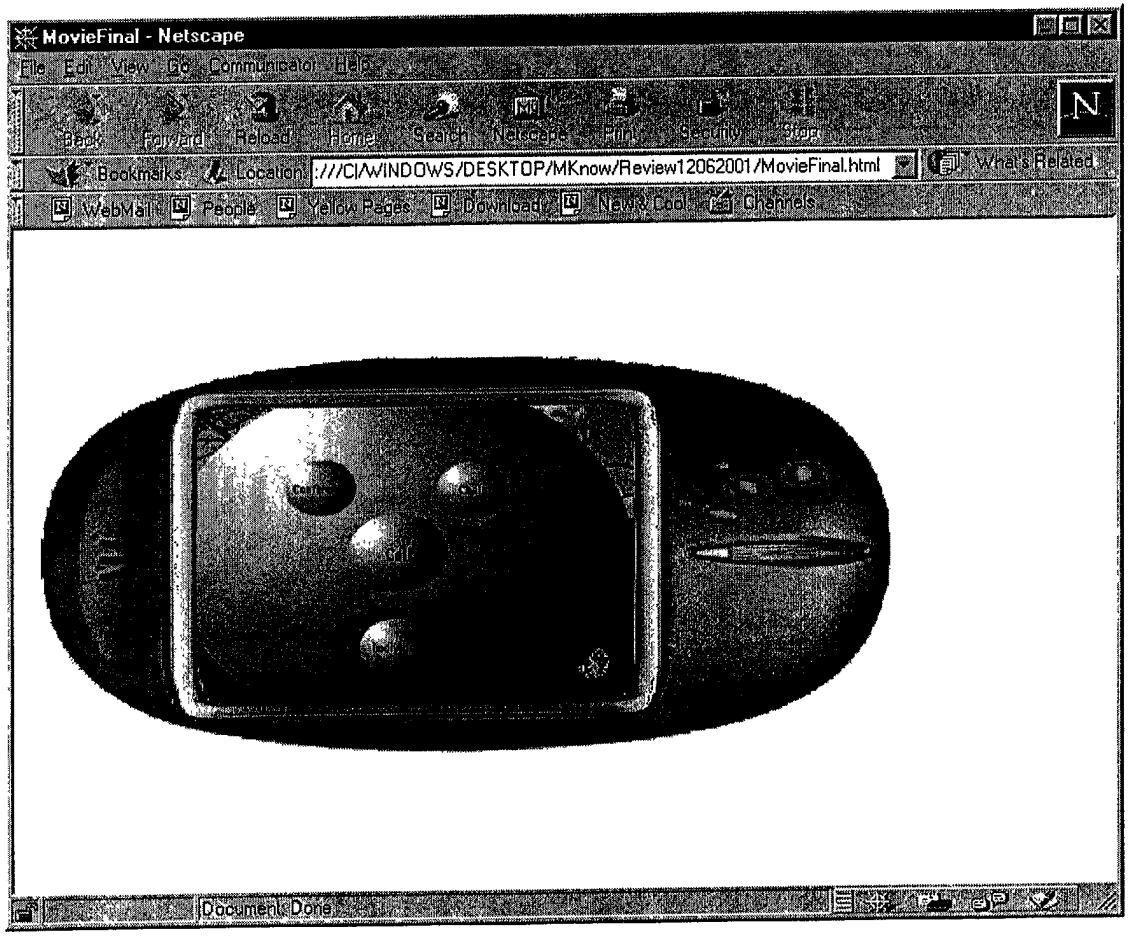
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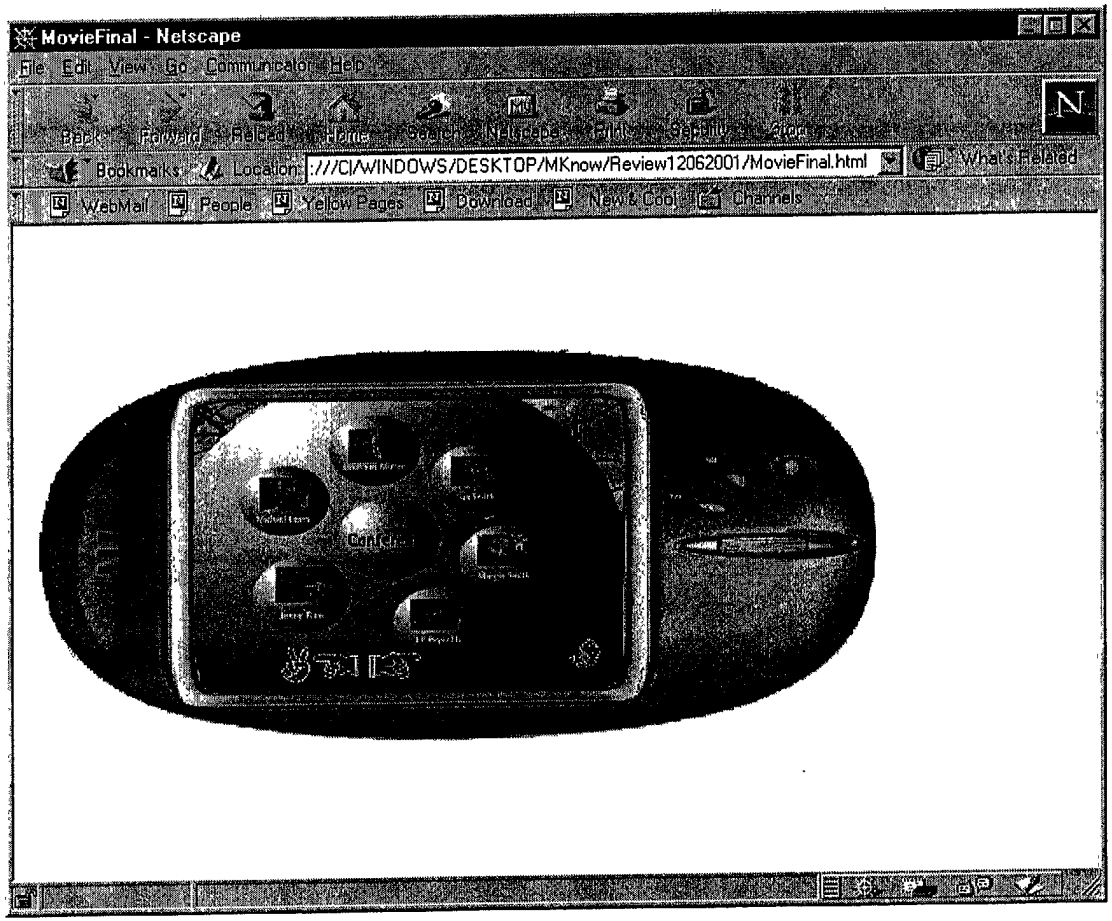
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Figure 26O

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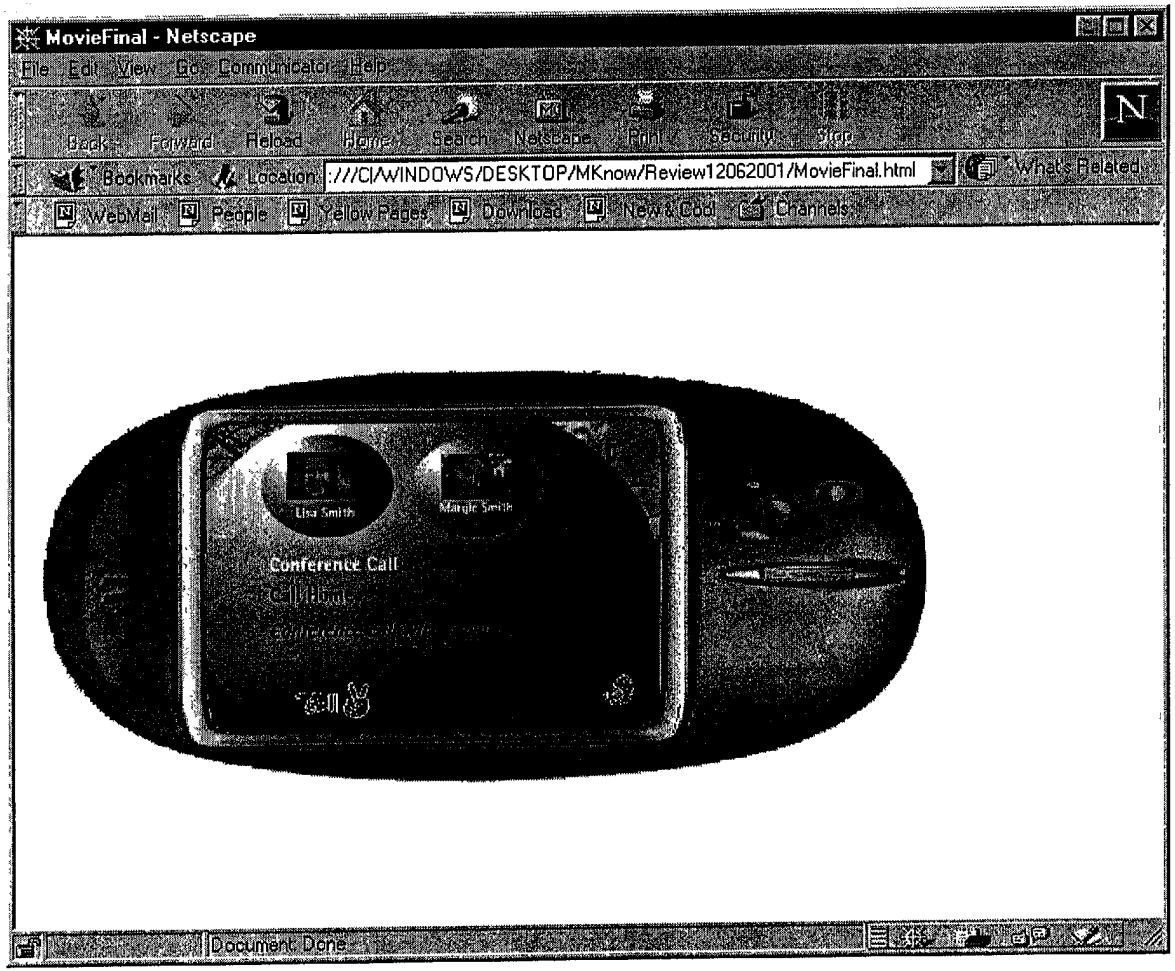

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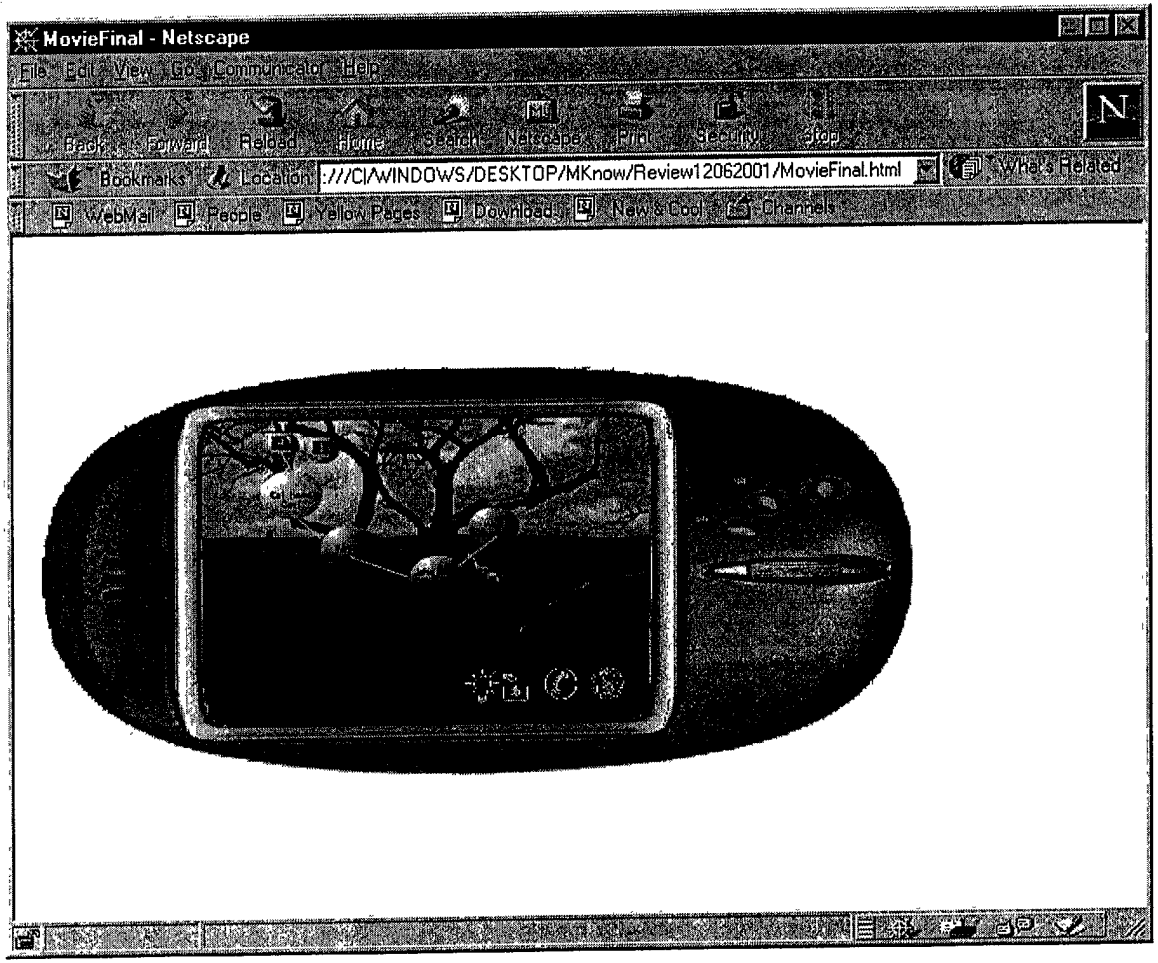
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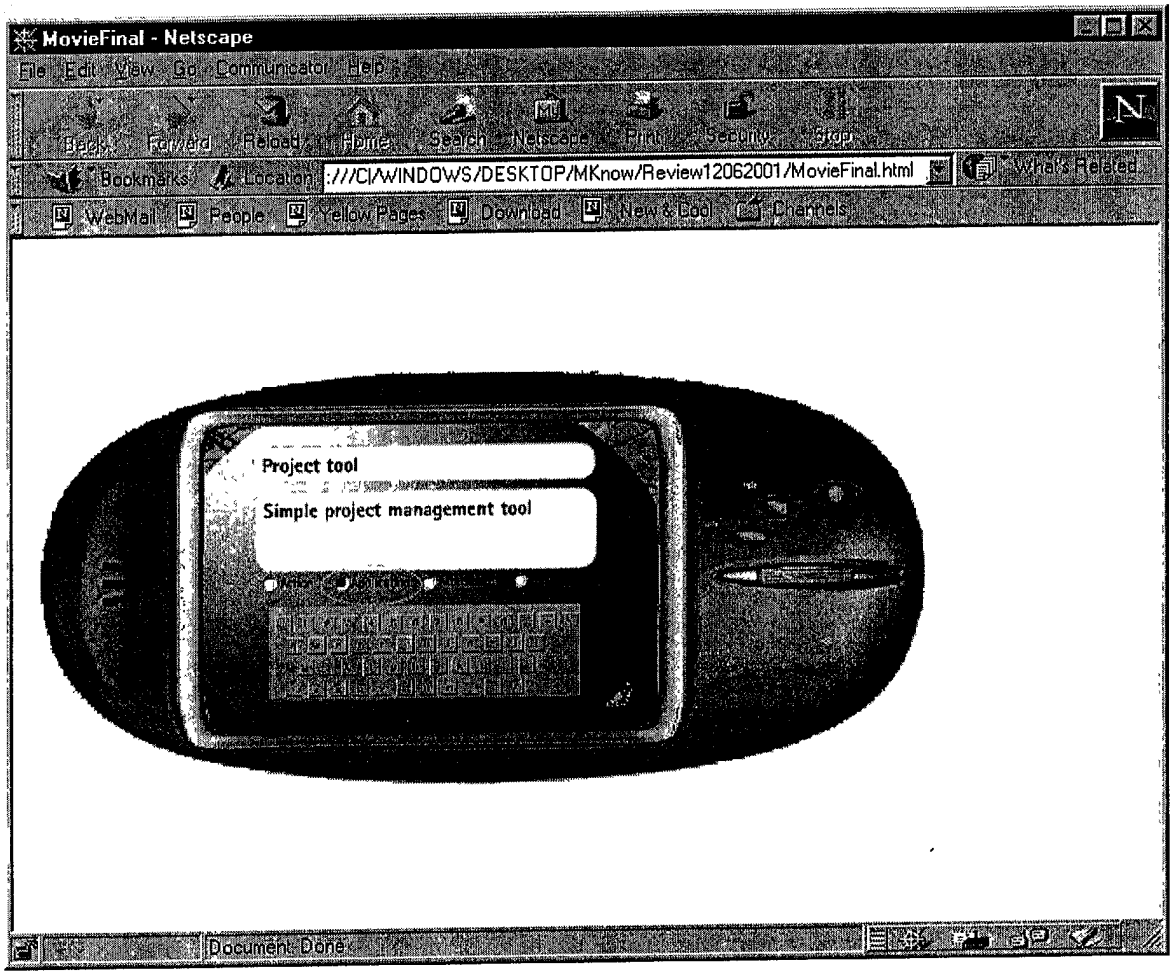
Figure 26Q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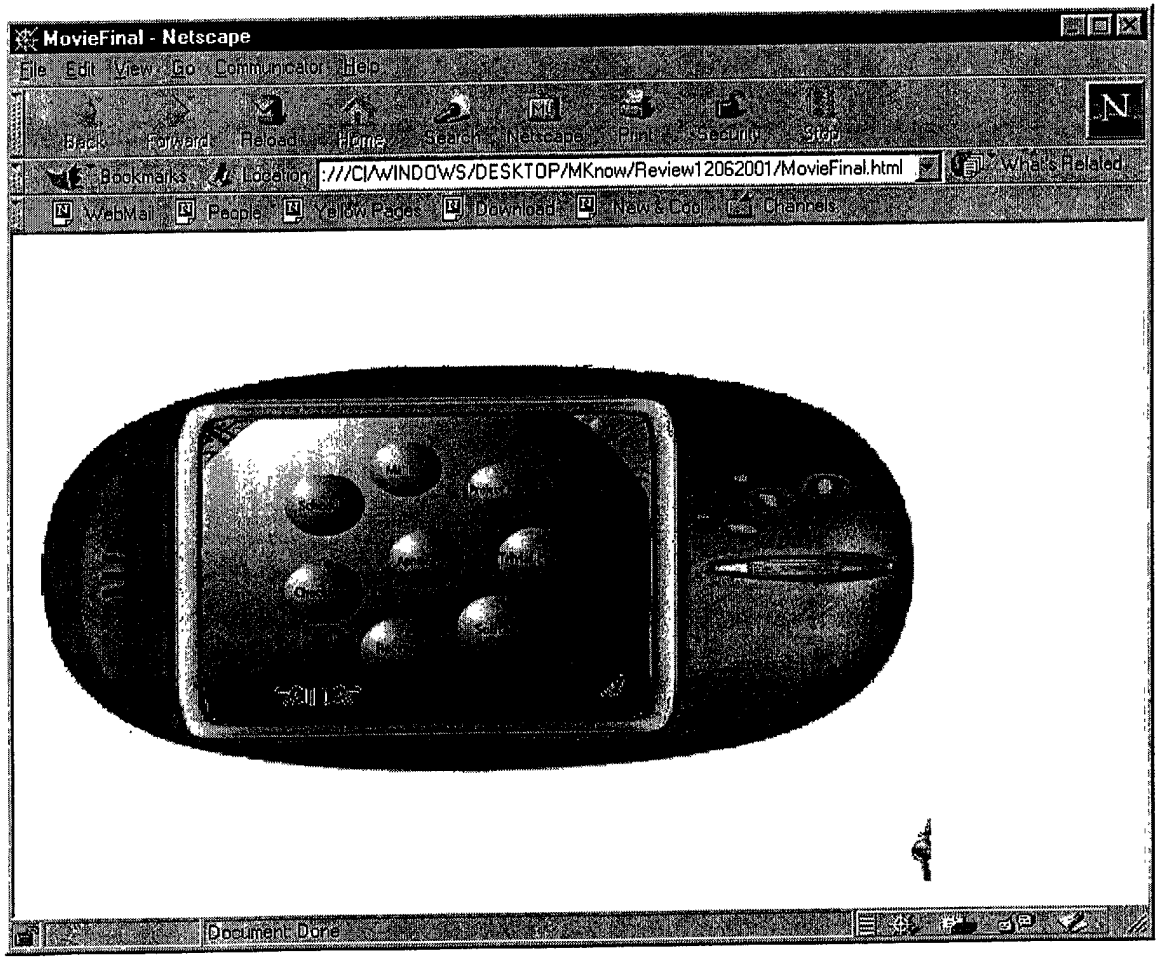
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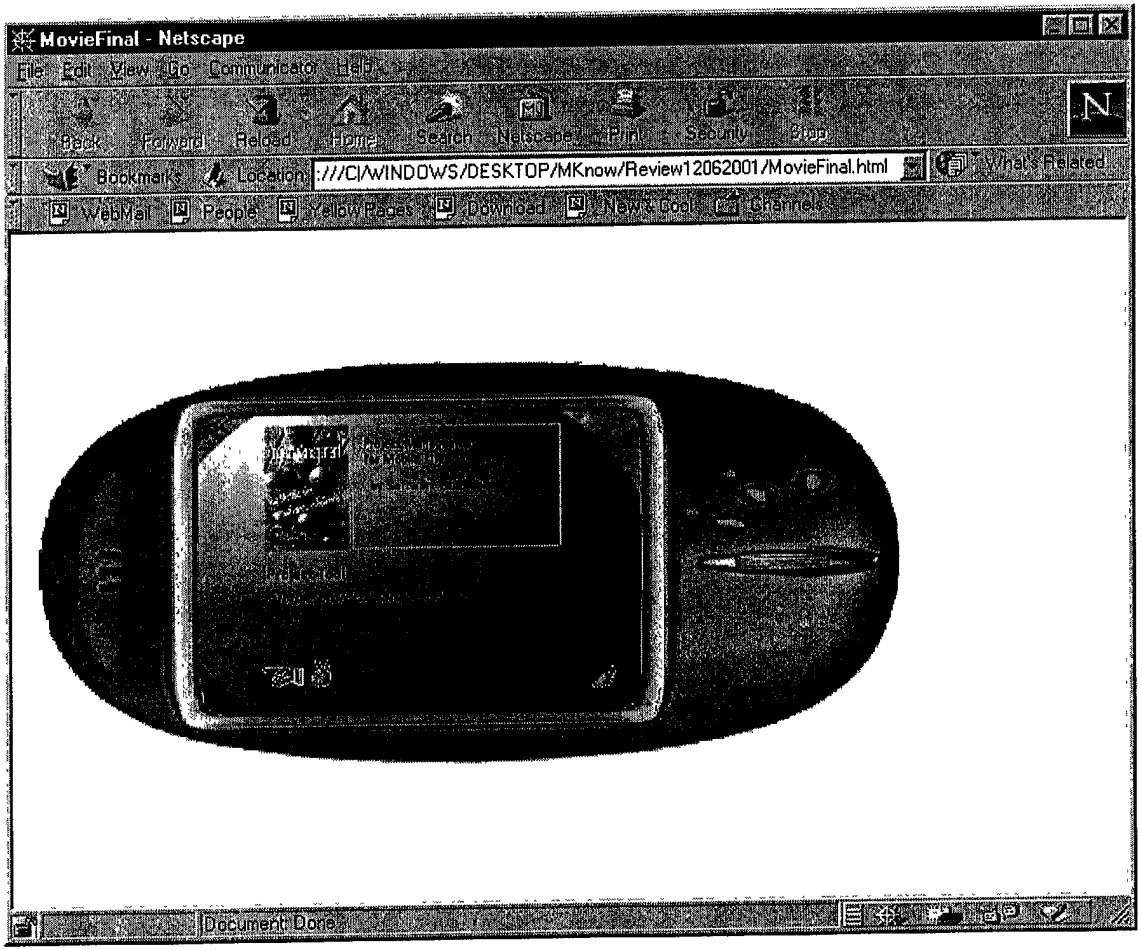
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Figure 26T

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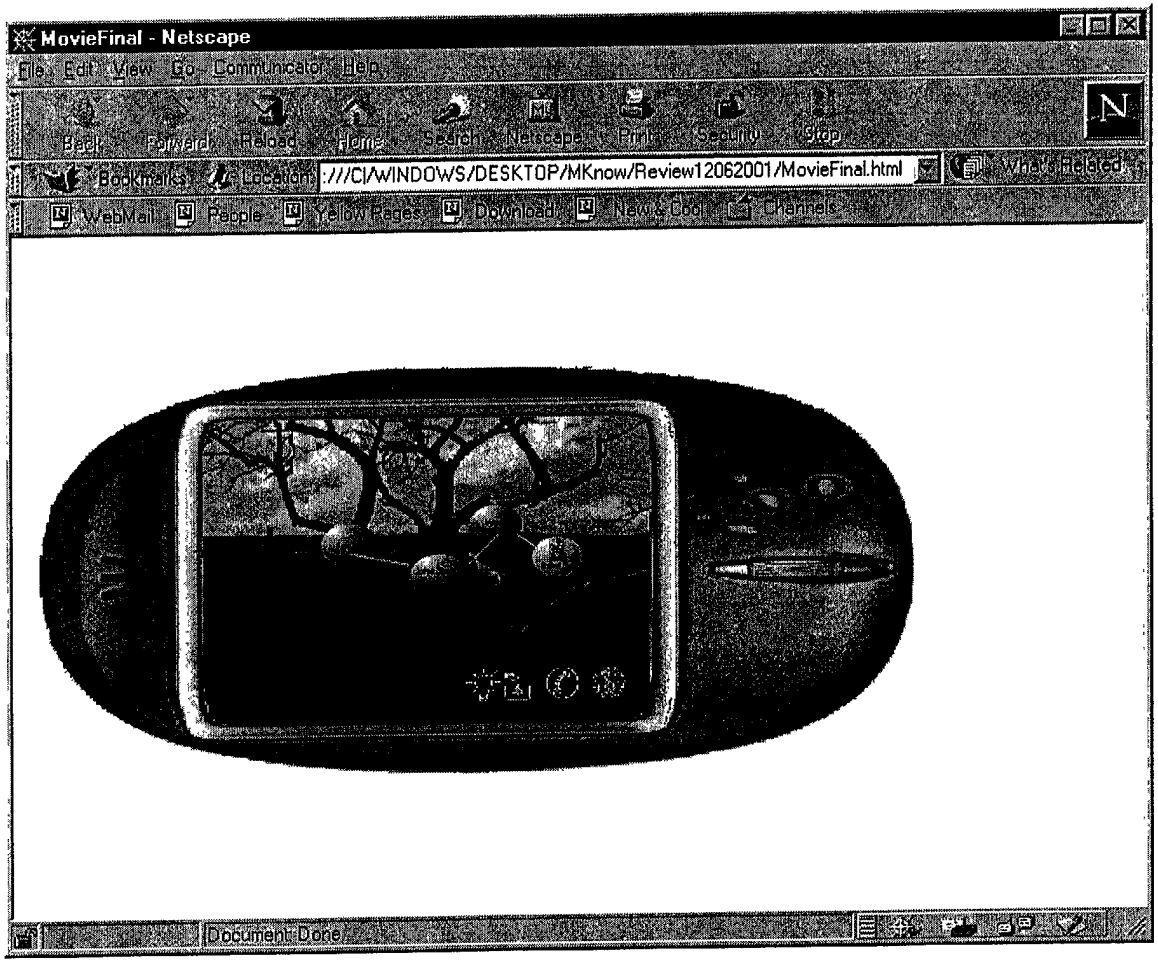

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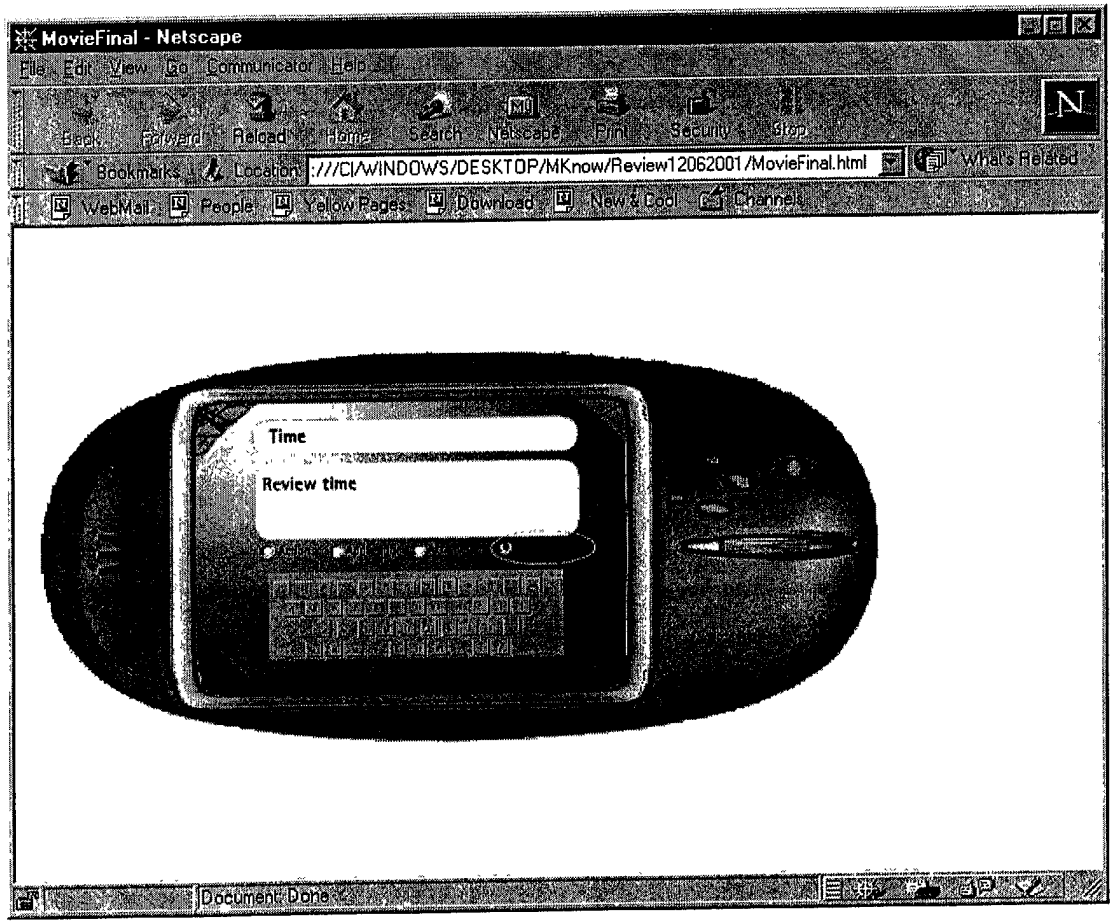
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Figure 26V

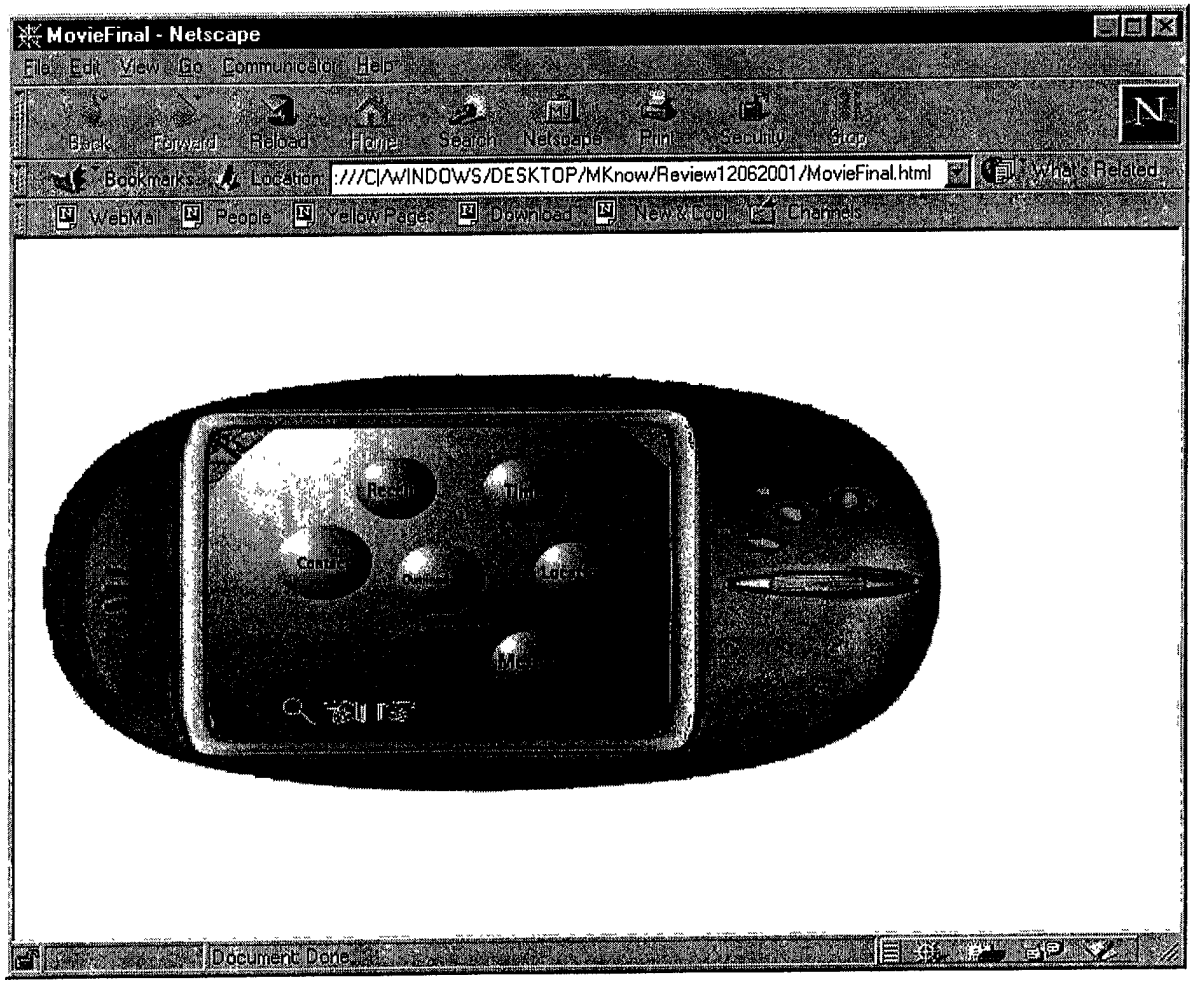
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Figure 26W

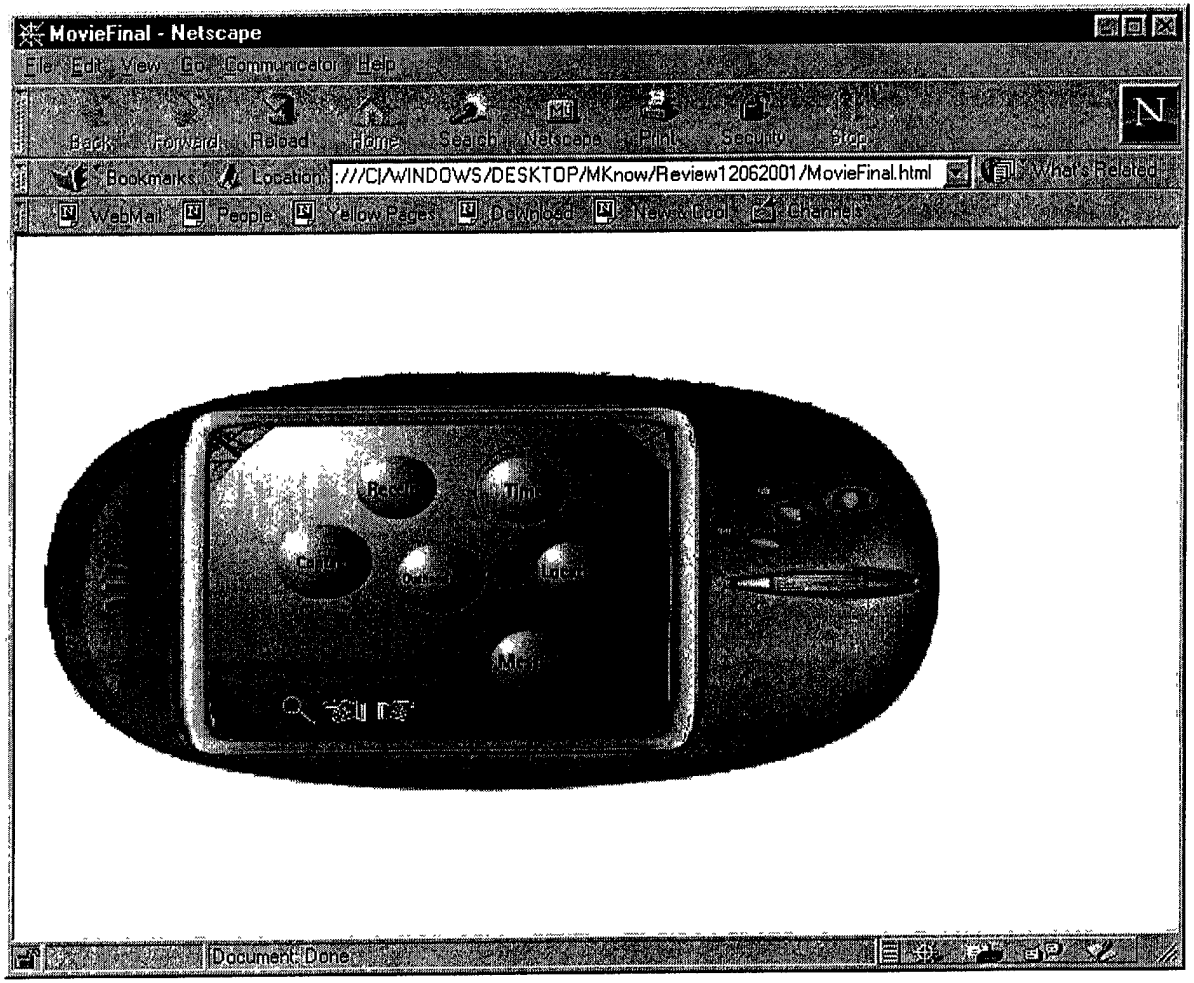
MovieFinal - Netscape
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Figure 26X

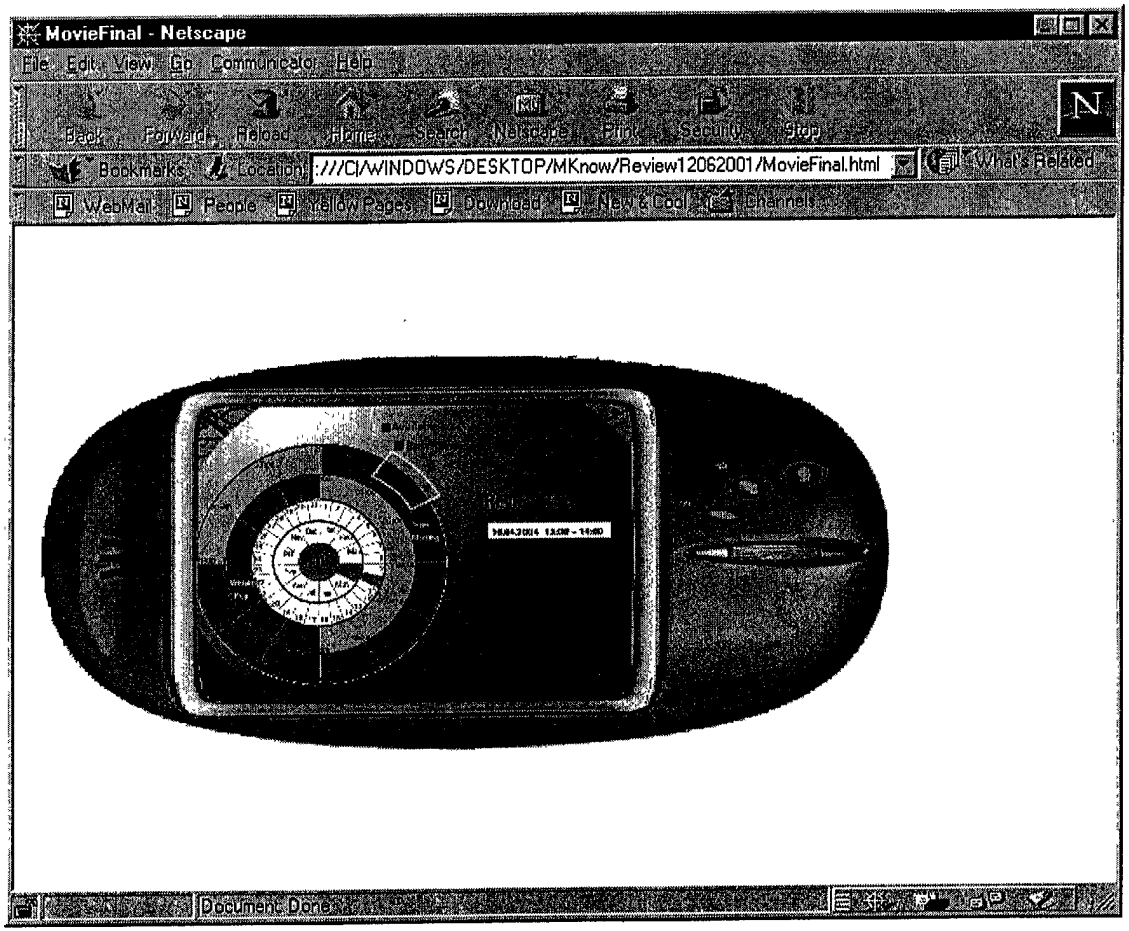
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Figure 26Y

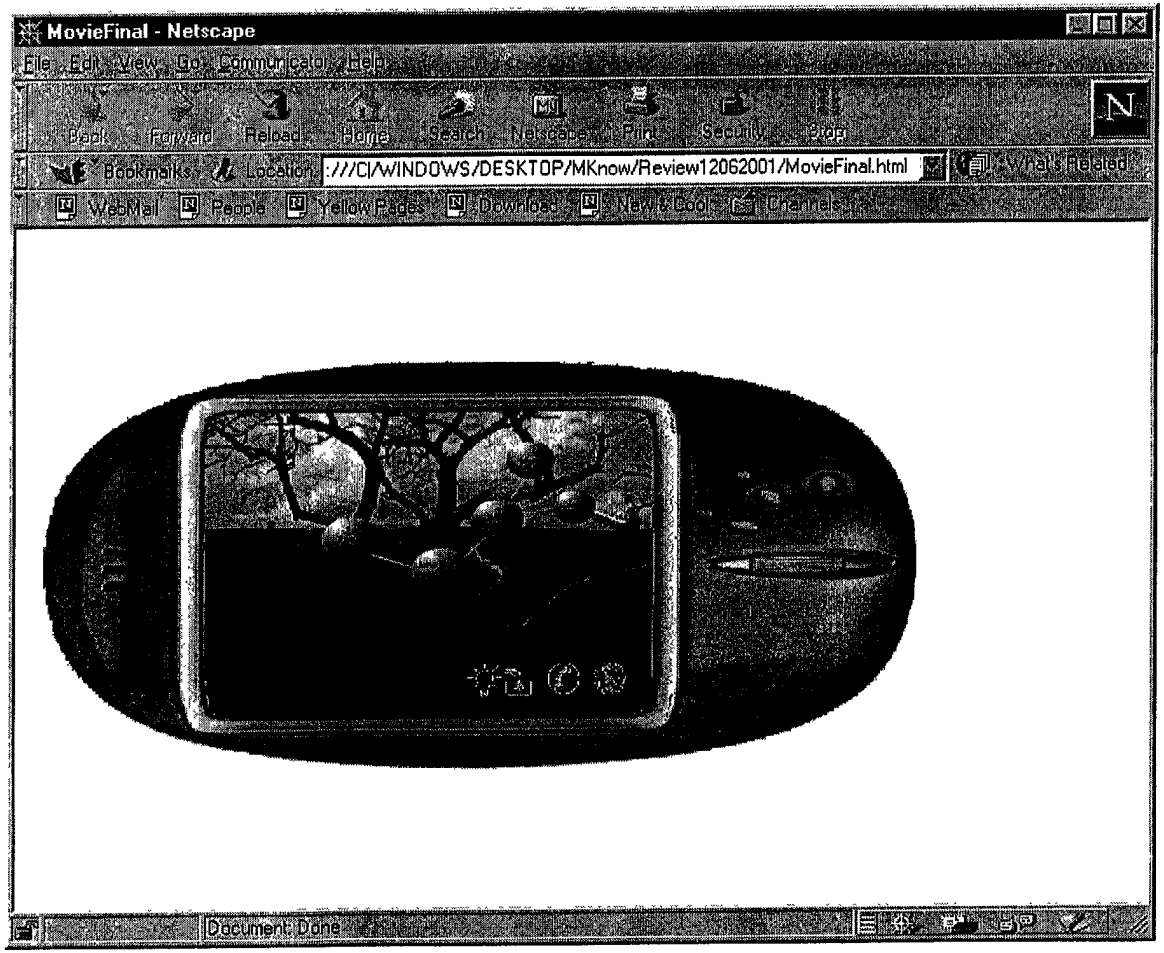
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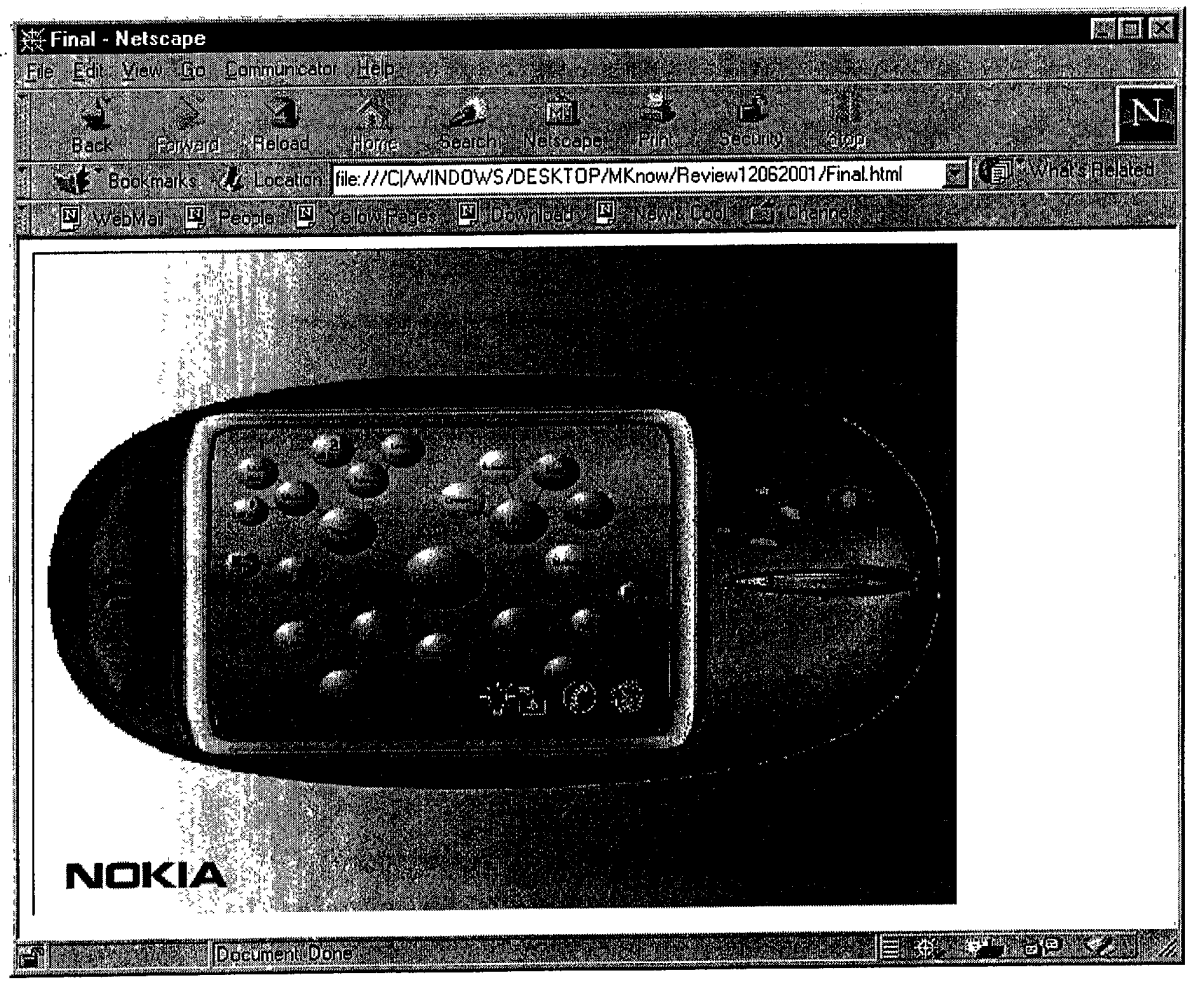
Figure 26Z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NOKIA
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Figure 26AA

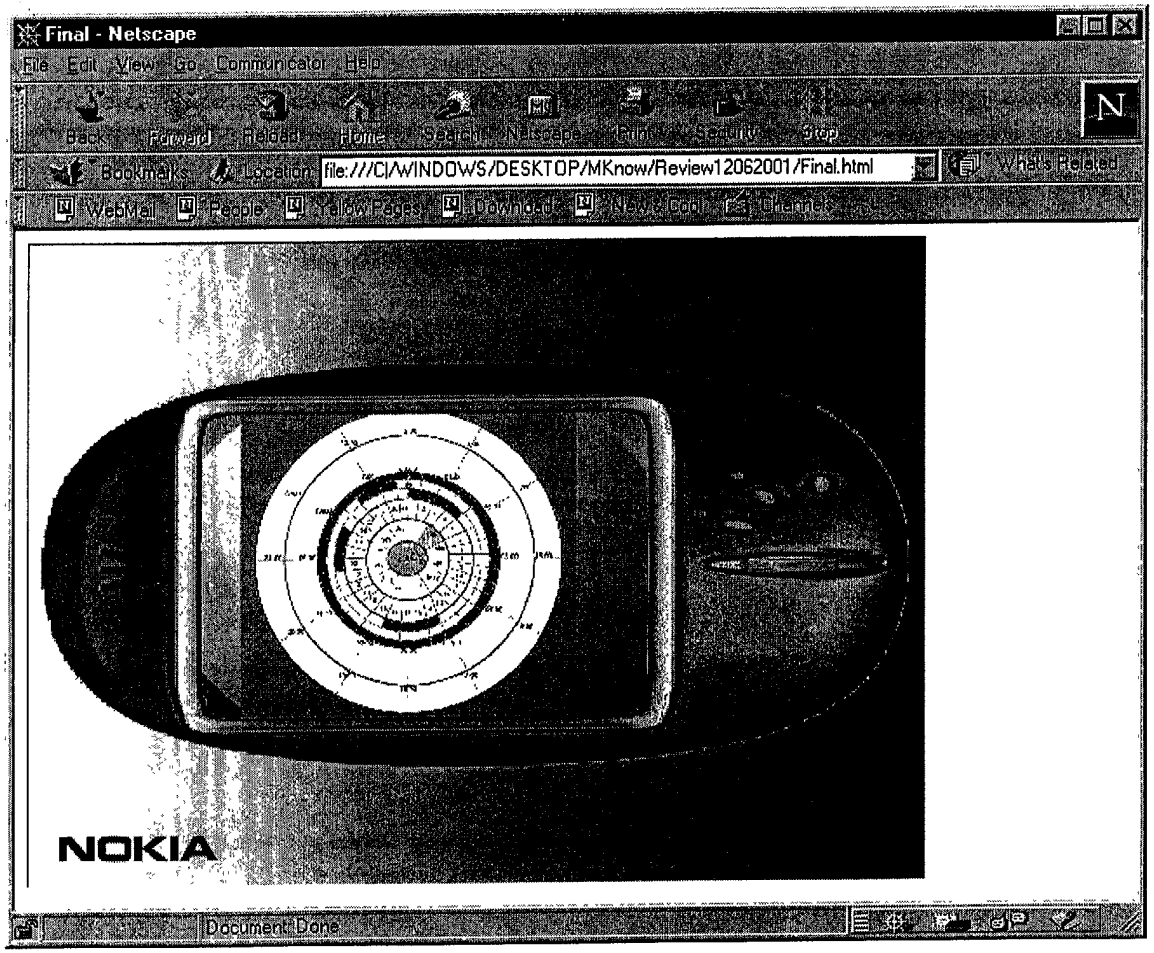
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Figure 26AB

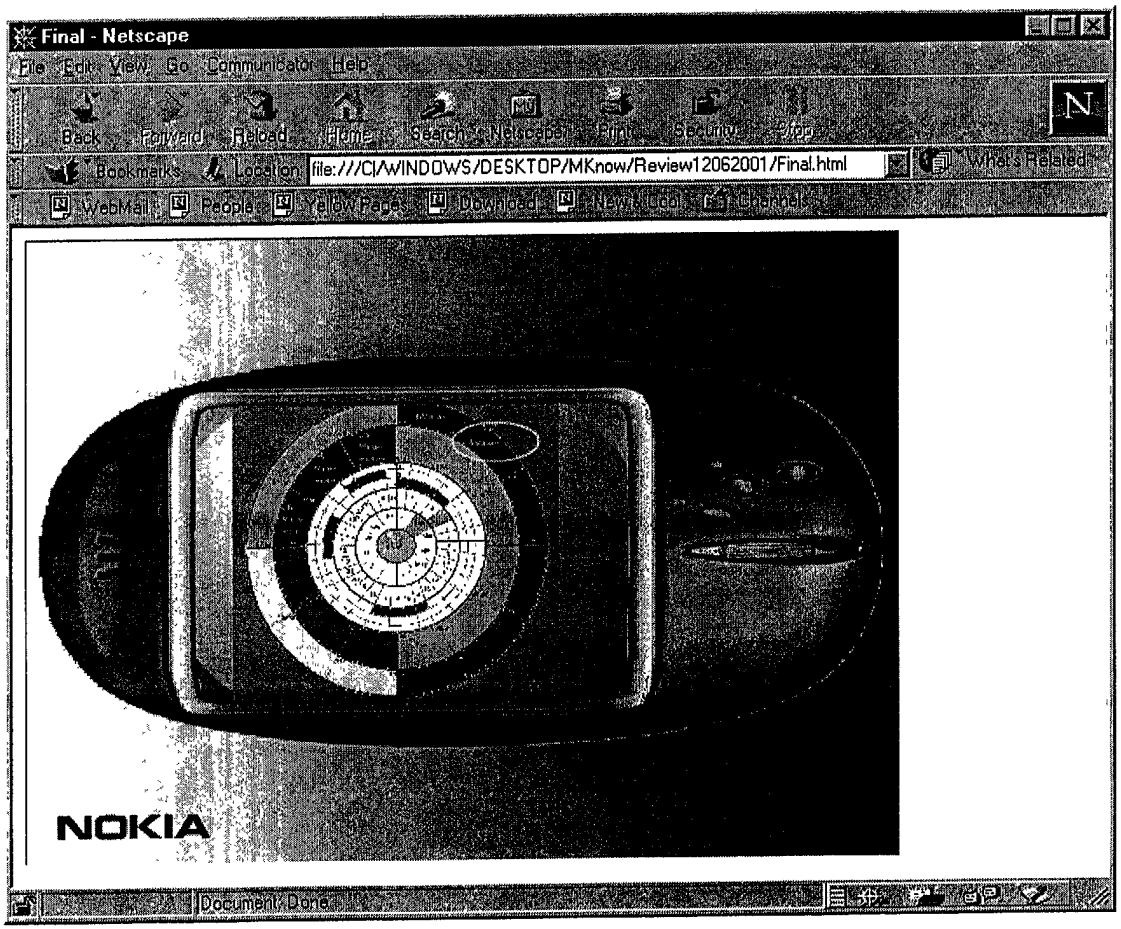
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Figure 26AC

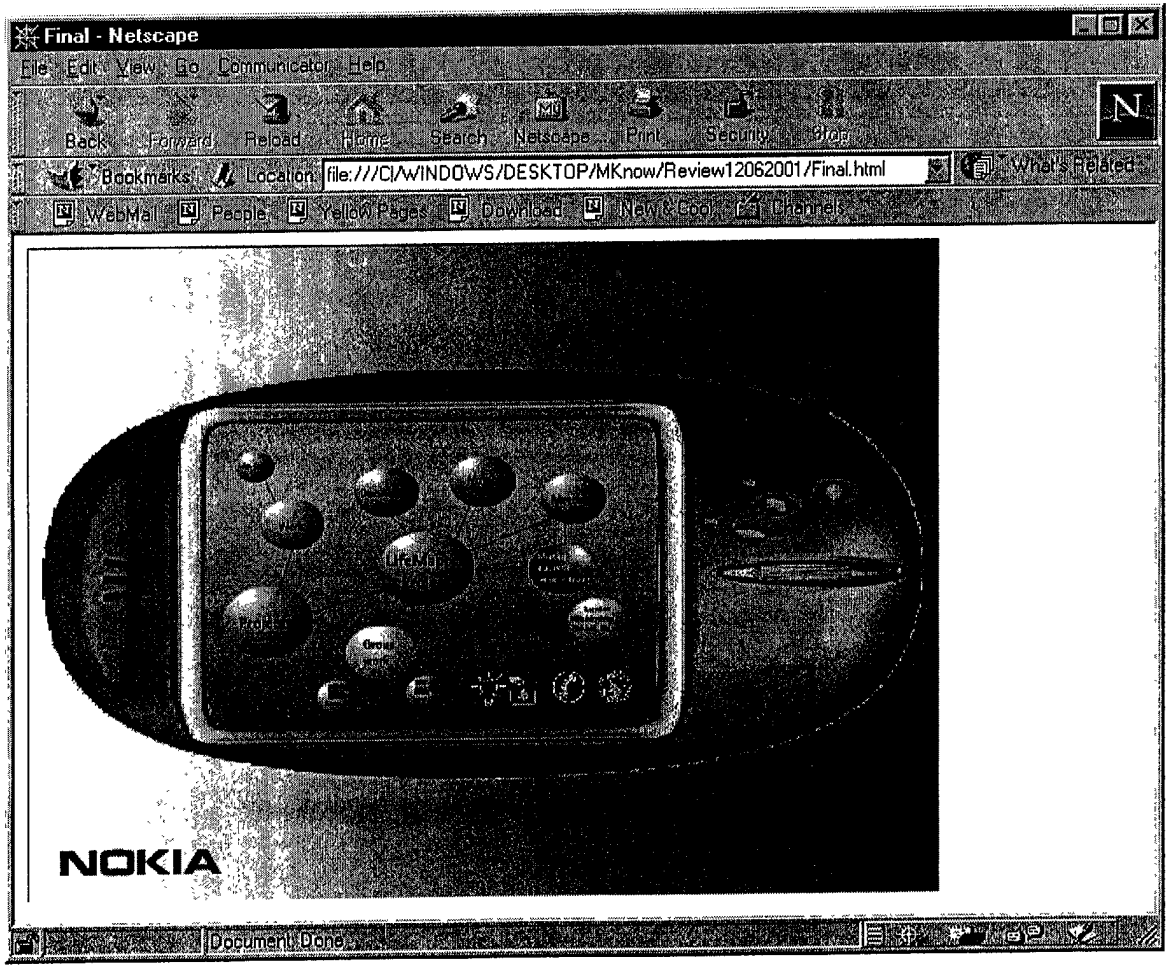
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Figure 26AD

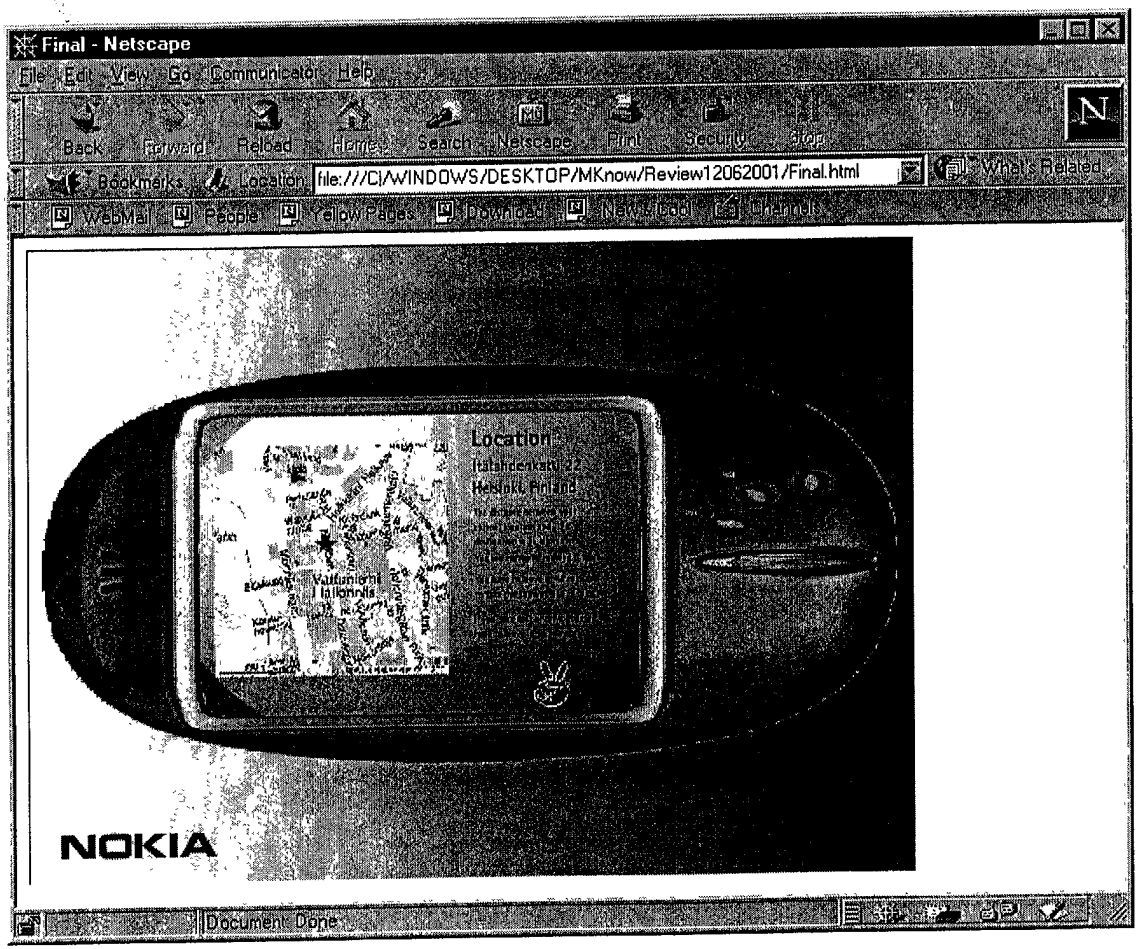
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Figure 26AE

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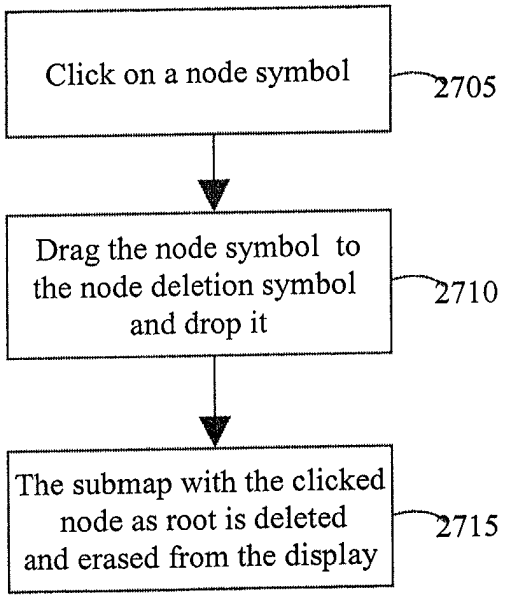

Figure 27A Deleting a submap (limiting case: a node) from a map

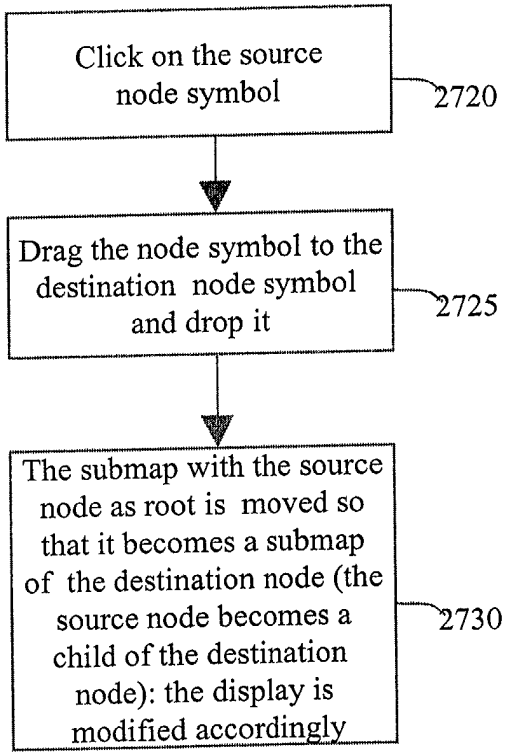

Figure 27B Moving a submap (limting case: a node) to another place in a map

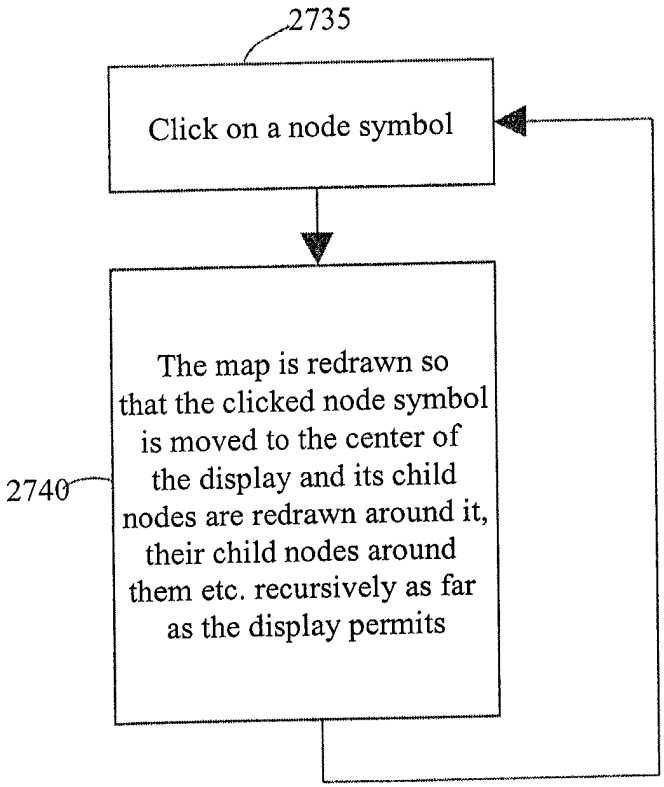

Figure 27C Navigating a map manually

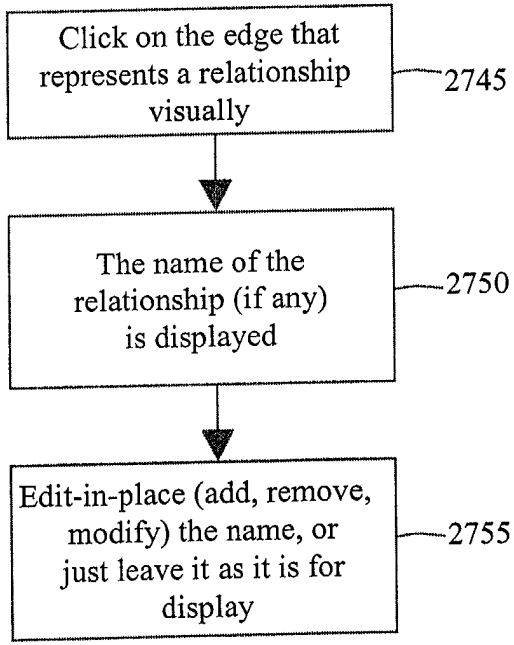

Figure 27D Editing or displaying the name of a relationship

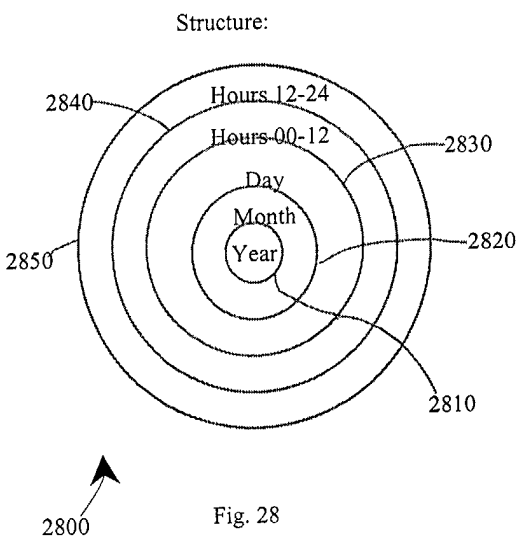

Fig. 28

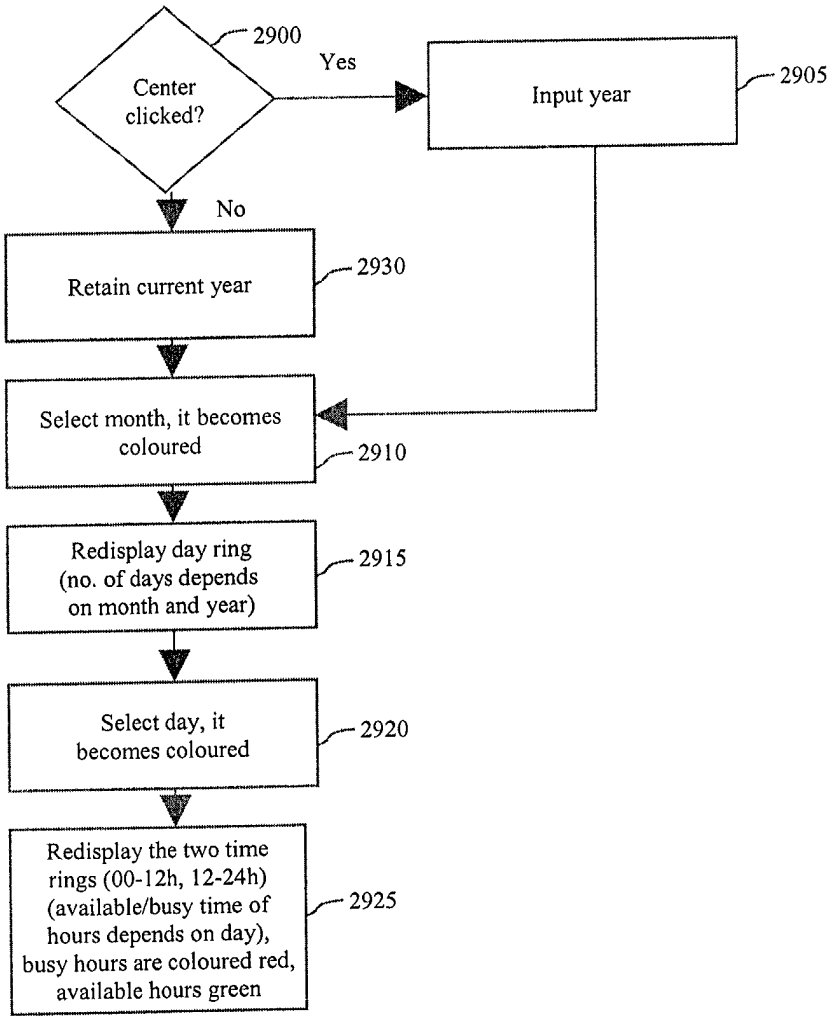

Figure 29 (Calendar)

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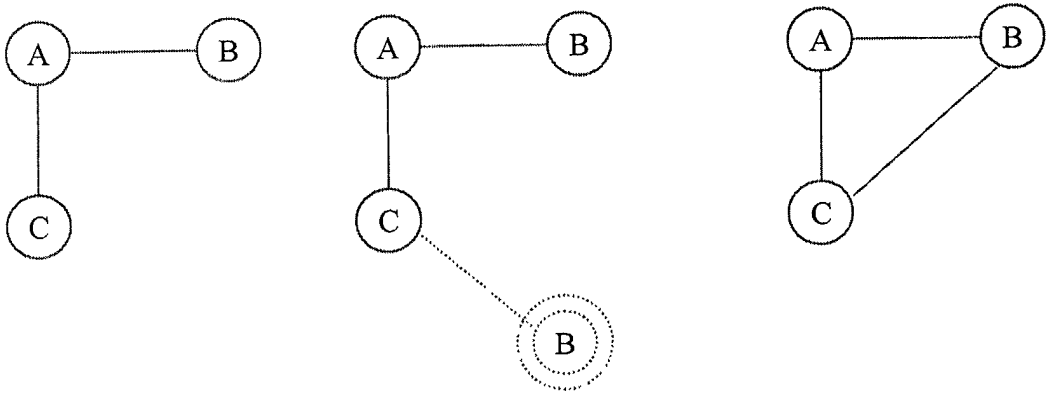

(a) (b) (c)

Figure 30

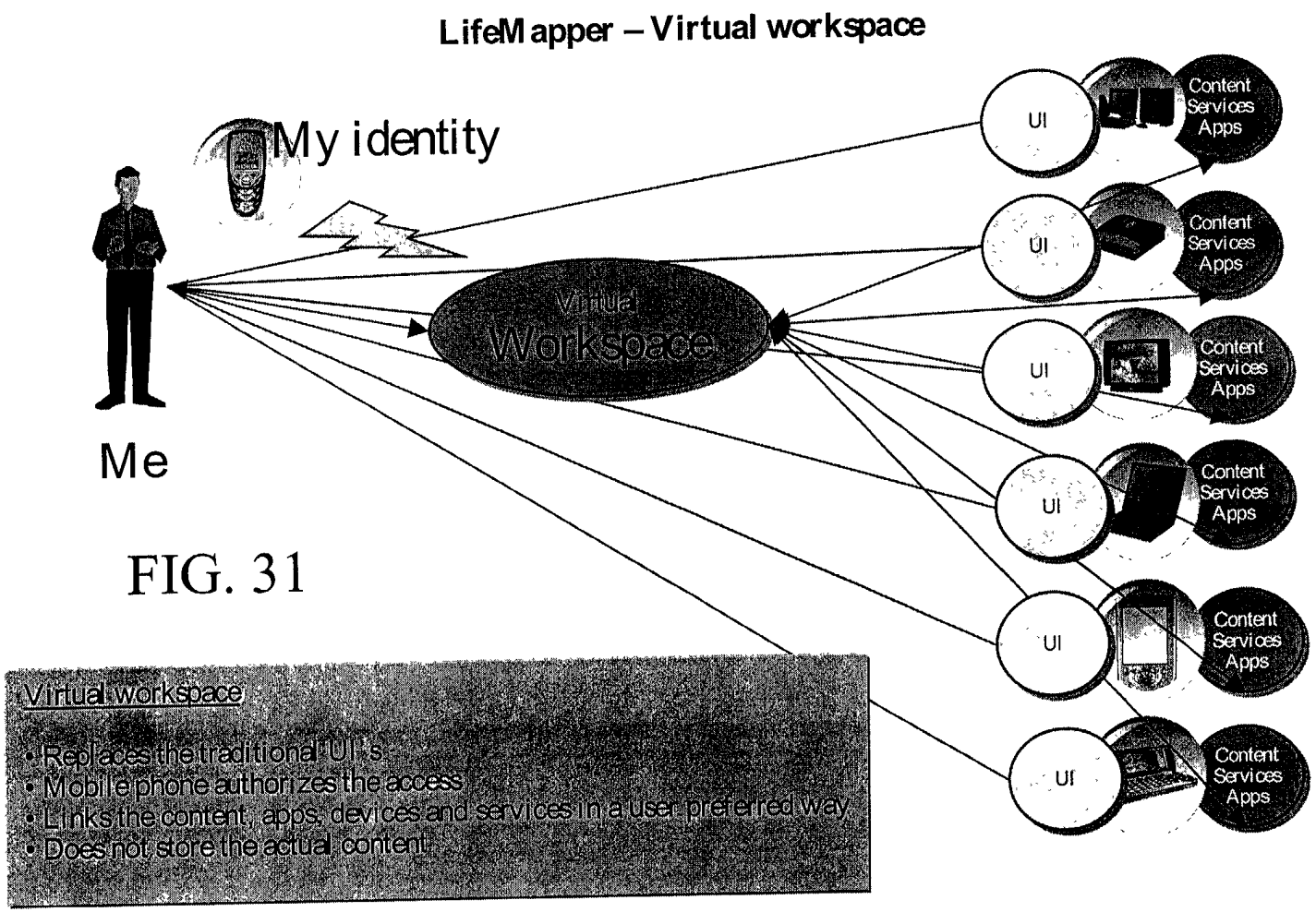
LifeMapper – Virtual workspace
My identity
Me
Virtual Workspace
UI
Content Services Apps
UI
Content Services Apps
UI
Content Services Apps
UI
Content Services Apps
UI
Content Services Apps
UI
Content Services Apps
Virtual workspace
• Replaces the traditional "UI's"
• Mobile phone authorizes the access
• Links the content, apps, devices and services in a user preferred way
• Does not store the actual content

FIG. 31

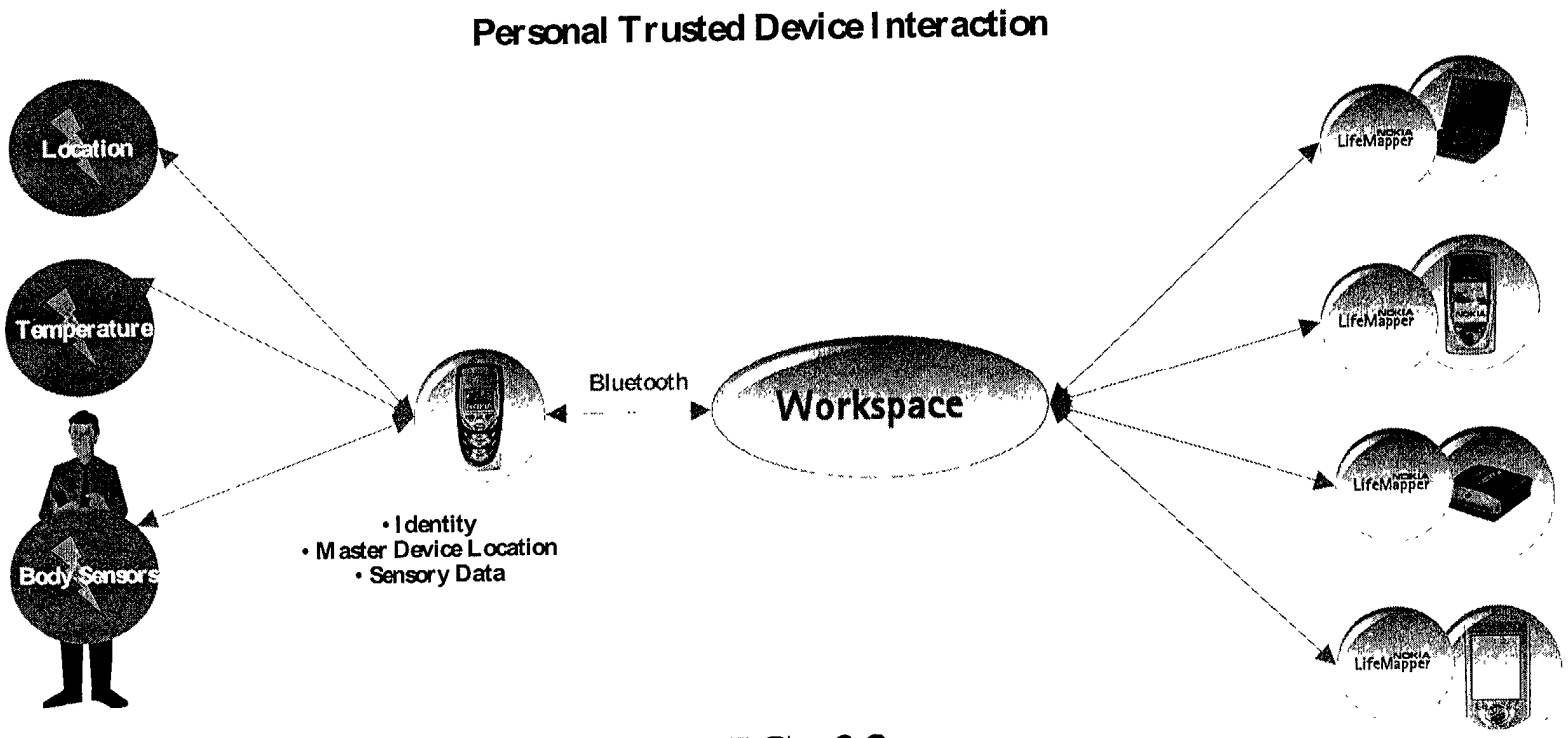
Personal Trusted Device Interaction
Location
Temperature
Body Sensors
Bluetooth
Workspace
• Identity
• Master Device Location
• Sensory Data
LifeMapper
LifeMapper
LifeMapper
LifeMapper

FIG. 32

Nokia LifeMapper Personal – Home Domain

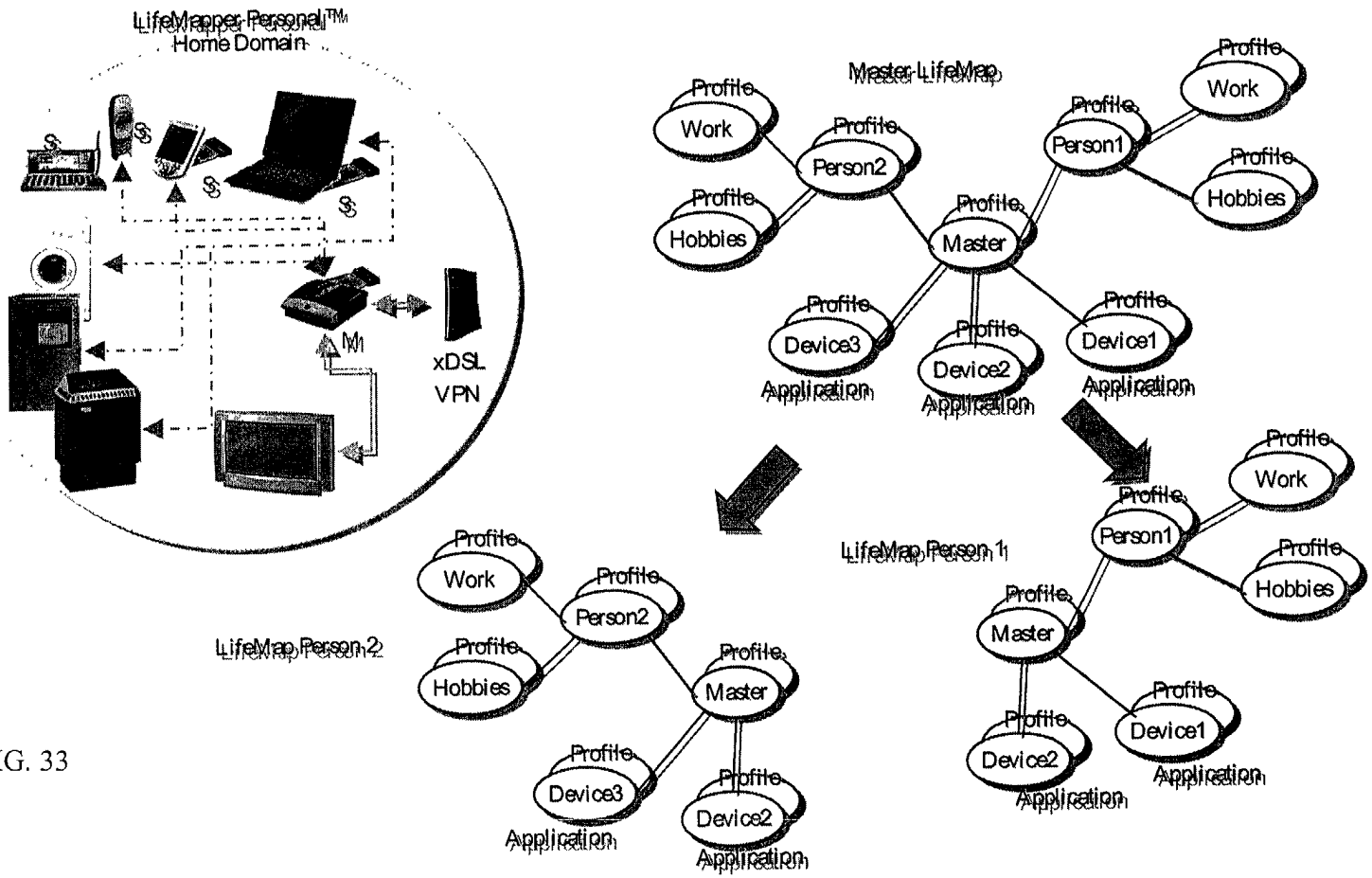

FIG. 33